

# STIC Search Report

## STIC Database Tracking Number: 212322

TO: Necholus Ogden Location: Remsen 9a31

Art Unit: 1751 January 11, 2007

Phone: 571-272-1322

Serial Number: 09 / 655964

From: Jan Delaval Location: EIC 1700 Remsen 4a30

Phone: 571-272-2504

jan.delaval@uspto.gov

| Search Notes |   | · · | • |
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Access DB# 212322

## SEARCH REQUEST FORM

### Scientific and Technical Information Center

| Requester's Full Name: No. Ch.  Art Unit: //75 / Phone Mail Box and Bldg/Room Locati   | / <sub>4</sub> S   | Examiner # : 7/6/<br>Serial Number<br>sults Format Preferred   | Date: [-9] :: 09/057, 76 (circle): PAPER DISK  | E-MAIL                         |
|--|--|--|--|--------------------------------|
| If more than one search is sub   | mitted, please priori  | tize searches in orde  | r of need.   |                                |
| Please provide a detailed statement of the Include the elected species or structures. utility of the invention. Define any term known. Please attach a copy of the cover | ne search topic, and describ<br>, keywords, synonyms, acr<br>as that may have a special r<br>r sheet, pertinent claims, an | e as specifically as possible<br>onyms, and registry numbe<br>meaning. Give examples on<br>and abstract. | e the subject matter to be sears, and combine with the correlevant citations, authors, | arched.<br>ncept or<br>etc, if |
| Title of Invention: Branche  | Princy Al  | (ch / Conp.,   |  | '''' ( Dt                      |
| Inventors (please provide full names):   | Singlaten,   | David M. e   | tal. JANO  | S RECU                         |
| Earliest Priority Filing Date: ///   | 126/1351   |  | Pat. & T.  | 1 Office                       |
| *For Sequence Searches Only* Please incl   | . ,  | (narant child divisional as  |  |                                |
| appropriate serial number.   | an perment injormation   | tparent, enau, aivisionai, or  | issued patent numbers) along   | with the                       |
| •  |  |  |  |                                |
| Pleuse Search  | the Sulfat   | e Compound   | 15<br>1 6  |                                |
|  |  | - 1  |  |                                |
| Claims   | 1, 27, ss  | 94   |  |                                |
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| **************************************   | **************************************   |  | *******************  | **                             |
| Searcher:  | NA Sequence (#)  |  | cost where applicable  |                                |
| Searcher Phone #:  | AA Sequence (#)  |  |  |                                |
| Searcher Location:   | Structure (#)  |  |  |                                |
| Date Searcher Picked Up: 1 Moz   | Bibliographic  |  |  | _                              |
| Date Completed:     Wor  | Litigation   |  |  | _                              |
| Searcher Prep & Review Time:   | Fulltext   |  |  |                                |
| Clerical Prep Time:30  | Patent Family  |  |  |                                |
| Online Time: ナ(の)  | Other  | Other (specify)  |  |                                |

=> fil reg FILE 'REGISTRY' ENTERED AT 09:57:57 ON 11 JAN 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2007 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 10 JAN 2007 HIGHEST RN 917201-58-2 DICTIONARY FILE UPDATES: 10 JAN 2007 HIGHEST RN 917201-58-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> d sta que 150 L48 STR



REP G1=(0-1) O
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
GGCAT IS BRA AT 1
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M8 C AT 1

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE

L50 458 SEA FILE=REGISTRY CSS FUL L48

100.0% PROCESSED 764379 ITERATIONS SEARCH TIME: 00.00.09

458 ANSWERS

=> d his

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              1 S (US6150322 OR US5849960)/PN OR (US98-133303# OR US96-755843#)
                E SINGLETON/AU
                E SINGLETON D/AU
L2
             68 S E3, E12, E20, E26, E27
                E KRAVETZ/AU
L3
             46 S E18-E22
                E MURRAY/AU
              2 S E3
T.4
                E MURRAY B/AU
L5
             28 S E3
                E MURRAY BREND/AU
             78 S E6, E8, E9, E10
L6
                E ALCOHOL/CW,CT
L7
           1192 S E3, E4
                E ALCOHOLS/CW,CT
         149569 S E3, E4, E5
L8
L9
         150758 S L7, L8
L10
           1020 S L9 (L) BRANCH?
L11
             38 S L10 (L) (SULFAT? OR SULPHAT?)
L12
              2 S L1-L6 AND L11
L13
             13 S L11 AND (PY<=1996 OR PRY<=1996 OR AY<=1996)
L14
             1 S L12 AND L13
L15
             13 S L13, L14
L16
            210 S L1-L6 NOT L12
L17
             42 S L16 AND L9
             17 S L17 AND L10
L18
L19
              9 S L18 AND (?SULFAT? OR ?SULPHAT?)
L20
              8 S L19 NOT 60/SC
L21
              8 S L18 NOT L19
L22
              2 S L18 AND (?SULFONAT? OR ?SULPHONAT?)
L23
              1 S L22 NOT 60/SC
L24
            167 S L10 AND (?SULFAT? OR ?SULPHAT?)
L25
            114 S L10 AND (?SULFONAT? OR ?SULPHONAT?)
L26
             62 S L24, L25 AND (PY<=1996 OR PRY<=1996 OR AY<=1996)
L27
             71 S L14, L20, L23, L26
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L28
                TRA L27 1- RN :
                                     615 TERMS
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L29
            615 SEA L28
L30
             86 S L29 AND UNSPECIFIED
L31
             51 S L30 AND ENTE/FA
L32
            529 S L29 NOT L30
L33
            114 S L32 AND S/ELS
L34
            111 S L33 AND O/ELS
L35
             59 S L34 AND PMS/CI
L36
             56 S L35 NOT (N/ELS OR "(C2H4O)NC12H22O7S.NA"/MF)
L37
             3 S L35 NOT L36
L38
             1 S 181355-78-2
L39
             57 S L36, L38
L40
             52 S L34 NOT L35
L41
            19 S L40 AND NR>=1
L42
           . 33 S L40 NOT L41
L43
             19 S L42 AND C>=8
L44
             12 S L43 AND (C16H34O4S OR C18H38O4S OR C12H26O4S OR C17H36O4S OR
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SEL RN 9-12
L45
              8 S L44 NOT E1-E4
L46
                STR
L47
              8 S L46 CSS SAM
L48
                STR L46
L49
              2 S L48 CSS
L50
            458 S L48 CSS FUL
                SAV L50 OGDEN655/A
L51
          19291 S C2H4O AND S/ELS
L52
           8375 S L51 NOT C6/ES
L53
           3525 S L52 NOT (N OR P OR SI)/ELS
L54
           2962 S L53 AND 1/S
L55
           1881 S L54 NOT PROPEN?
            568 S L55 AND NR>=1
L56
            399 S L56 AND OC2/ES
L57
L58
            389 S 75-21-8/CRN AND L57
L59
             43 S L58 AND 1/NR
L60
           1313 S L55 NOT L56
L61
            690 S L60 AND (S AND C AND O AND H)/ELS AND 4/ELC.SUB
L62
            178 S L61 AND OXO
            512 S L61 NOT L62
L63
L64
                STR
              2 S L64 CSS SAM SUB=L63
L65
L66
             92 S L64 CSS FUL SUB=L63
                SAV L66 OGDEN655A/A
L67
             45 S L66 NOT L39, L45
L68
             43 S L67 NOT C4H1002S
L69
             11 S L68 AND ("(C2H4O)NC18H38O5S" OR "(C2H4O)NC2OH42O6S" OR "(C2H4
              3 S L68 AND ("(C2H4O)NC19H4OO6S" OR "(C2H4O)NC18H38O6S" OR "(C2H4
L70
             29 S L68 NOT L69, L70
L71
L72
            546 S L39, L45, L50, L71
                SAV L72 OGDEN655B/A
L73
            460 S L72 NOT C2H4O
L74
             86 S L72 NOT L73
L75
              7 S L74 AND ("(C2H4O)NC12H26O4S.NA" OR "(C2H4O)NH2O4S" OR "(C2H4O
                SEL RN 1-3
L76
              3 S E5-E7
L77
              4 S L75 NOT L76
L78
             82 S L74 NOT L77
                SAV L78 OGDEN655C/A
                SAV L73 OGDEN655D/A
L79
            213 S L73 AND NC>=2
L80
              2 S L79 AND PMS/CI
L81
            211 S L79 NOT L80
L82
             24 S L81 NOT SALT
L83
              5 S L82 AND (C6H15N OR C6H15NO3 OR C20H43N OR C12H26O5S)
L84
            187 S L81 NOT L82
             14 S L84 AND (NR>=1 OR IUM)
L85
L86
              4 S L85 AND H3N
L87
            173 S L84 NOT L85
            170 S L87 NOT (11C# OR 13C# OR 14C# OR C11# OR C13# OR C14# OR LABE
L88
L89
            179 S L83, L86, L88
                SAV L89 OGDEN655E/A
L90
             32 S L81 NOT L89
L91
              1 S L90 AND C12H26O4S
L92
            180 S L89, L91
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L93
            785 S L92
L94
            298 S L78
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L95
            257 S L93 AND PY<=1996 NOT P/DT
L96
            256 S L93 AND (PD<=19961126 OR PRD<=19961126 OR AD<=19961126) AND P
L97
            513 S L95, L96
L98
             50 S L94 AND PY<=1996 NOT P/DT
L99
            109 S L94 AND (PD<=19961126 OR PRD<=19961126 OR AD<=19961126) AND P
L100
            159 S L98, L99
L101
            145 S L97 AND DETERGENT?/SC, SX, CW, CT, BI
L102
            80 S L100 AND DETERGENT?/SC, SX, CW, CT, BI
                E DETERGENT/CT
L103
           2865 S E61-E68
L104
           1141 S E2+OLD, NT
L105
            912 S E4+OLD, NT
L106
          47324 S E12-E60
                E E12+ALL
L107
          23497 S E73+OLD, NT OR E76+OLD, NT
L108
             59 S L97 AND L103-L107
L109
             46 S L100 AND L103-L107
L110
            147 S L101, L108
L111
             81 S L102, L109
L112
              0 S L1-L6 AND L110, L111
                SEL RN L1
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L113
              7 S E1-E7
     FILE 'HCAPLUS' ENTERED AT 09:47:30 ON 11 JAN 2007
L114
              1 S L113 AND L1
L115
              1 S L114 AND L7-L27
                E SHAMPOO/CT
L116
           9455 S E8+OLD, NT OR E8-E11
                E SCORING/CT
                E SCOURING/CT
L117
           1182 S E5+OLD, NT OR E5, E6, E7, E8, E9
L118
             3 S L97 AND L116, L117
L119
             16 S L100 AND L116, L117
L120
            148 S L110, L118
L121
             92 S L111,L119
L122 ·
             74 S L120 AND P/DT
L123
             44 S L122 AND US/PC, PRC, AC
L124
             18 S L123 NOT DETERGENT?/SC
L125
             8 S L124 AND (TEXTILE? OR COSMETIC?)/SC
L126
             44 S L123, L125
L127
             58 S L121 AND P/DT
L128
             15 S L127 AND US/PC, PRC, AC
L129
              5 S L128 NOT DETERGENT?/SC
L130
              4 S L129 AND (TEXTILE? OR COSMETIC?)/SC
L131
              1 S L129 NOT L130
L132
             14 S L128 NOT L131
L133
             55 S L126, L132
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FILE 'REGISTRY' ENTERED AT 09:57:57 ON 11 JAN 2007

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=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 09:58:17 ON 11 JAN 2007

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FILE COVERS 1907 - 11 Jan 2007 VOL 146 ISS 3 FILE LAST UPDATED: 10 Jan 2007 (20070110/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L115 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN
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AN 1998:388486 HCAPLUS

DN 129:55771

ED Entered STN: 25 Jun 1998

TI Highly branched primary alcohol compositions, preparation thereof and biodegradable detergents therefrom

#### IN Kravetz, Louis; Murray, Brendan Dermot; Singleton, David Michael

PA Shell Internationale Research Maatschappij BV, Neth.

SO PCT Int. Appl., 78 pp. CODEN: PIXXD2

DT Patent

LA English

IC ICM C07C0031-125

ICS C07C0043-13; C07C0305-06; C07C0053-126; C11D0001-72; C11D0001-14; C11D0001-29

CC 46-3 (Surface Active Agents and Detergents)
 Section cross-reference(s): 23

FAN.CNT 1

|    | PAT | TENT               | NO.        |            |            | KIN        | D<br>-     | DATE       |                     | APPLICATION NO. |       |   |             |           |     | DATE |                |        |   |  |
|----|-----|--------------------|------------|------------|------------|------------|------------|------------|---------------------|-----------------|-------|---|-------------|-----------|-----|------|----------------|--------|---|--|
| PI | WO  |                    | AL,        | AM,        | AT,        | ΑU,        | ΑZ,        | BA,        | BB,                 | BG,             | WO 1  | 997-1<br>BY,                            | EP66<br>CA, | 94<br>CH, | CN, | CU,  | CZ,            |        | - |  |
|    |     |                    | ΚZ,        | LC,        | LK,        | LR,        | LS,        | LT,        | GH,<br>LU,<br>SG,   | LV,             | MD,   | MG,                                     | MK,         | MN,       | MW, | MX,  | NO,            | NZ,    |   |  |
| .* |     | R₩:                | UZ,        | VN,        | YU,        | zw         |            |            | UG,                 |                 |       |   |             |           |     |      |                |        |   |  |
|    |     |                    | GB,<br>GN, | GR,<br>ML, | IE,<br>MR, | IT,<br>NE, | LU,<br>SN, | MC,<br>TD, | NL,<br>TG           | PT,             | SE,   | BF,                                     | ВJ,         | CF,       | CG, | CI,  | CM,            | GA,    |   |  |
|    | US  | 5780               | 694        |            |            | Α          |            | 1998       | 0714                | Ī               | JS 1: | 996-                                    | 7558:       | 27        |     | . 19 | 9961           | 126 <- | _ |  |
|    | US  | 5849               | 960        |            |            | Α          |            | 1998       | 1215                | ī               | JS 1  | 996-                                    | 7558        | 43        |     | 19   | 9961           | 126 <- | _ |  |
|    | ZA  | 9710               | 543        |            |            | Α          |            | 1998       | 0610                |                 | ZA 1  | 997-                                    | 1054        | 3         | -   | 1    | 9971           | 124 <- |   |  |
|    | CA  | 2271               |            |            |            |            |            |            |                     |                 |       |   |             |           |     |      |                | 125 <- |   |  |
|    |     | 9856               |            |            |            |            |            |            |                     |                 |       |   |             |           |     |      |                | 125 <- |   |  |
|    |     | 7259               |            |            |            | B2         |            |            |                     | •               | 10 1  | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 5050        | ,         |     | Δ.   | ,,, <u>,</u> , | 123 \  |   |  |
|    |     | 9582               |            |            |            |            |            |            |                     | 1               | EP 19 | 997-                                    | 9528        | 30        |     | 1 (  | 9971           | 125 <- |   |  |
|    |     | 9582               | 67         |            |            | В1         |            | 2004       | 0331                |                 |       | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 5520.       | 50        |     | Δ.   | ,,,,,          | 125 \- |   |  |
|    |     | R:<br>1238<br>1090 | 749        |            |            | Α          |            | 1999       | NL,<br>1215<br>0911 | (               |       | 997-:                                   | 1999        | 66        |     | 19   | 9971:          | 125 <- | _ |  |

C07C0305-06 [I,A]; C07C0305-10 [I,A]; C11D0001-02

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CA 2271200
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                       C07C0053-126 [ICS,6]; C07C0053-00 [ICS,6,C*];
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EP 958267
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BR 9713144
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C07C0043-13 [ICS,7]; C07C0043-00 [ICS,7,C*];
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                       C11D0001-72 [ICS,7]; C07C0043-13 [ICS,7]; C07C0043-00
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PT 958267
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ES 2214650
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RO 120404
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                       C07C0029-16 [I,A]; C07C0041-00 [I,C*]; C07C0041-03
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SK 285235
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                       [I,C*]; C07C0041-00 [I,C*]; C07C0043-00 [I,C*];
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                       C07C0029-16 [I,A]; C07C0031-125 [I,A]; C07C0041-03
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                       [I,C*]; C11D0001-04 [I,A]; C11D0001-14 [I,A];
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                       568/909.000; 252/182.110; 510/235.000; 510/275.000;
                       510/276.000; 510/426.000; 585/510.000; 585/512.000
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                       C07C031/125; C07C043/11; C07C305/06; C07C305/10;
                       C11D001/04; C11D001/14D; C11D001/29; C11D001/72
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 MX 9904065
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                        C07C0305-06 [ICS,5]; C07C0305-00 [ICS,5,C*];
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                         [I,C*]
AΒ
     A branched primary alc. composition and the sulfates, alkoxylates,
     alkoxy sulfates and carboxylates thereof exhibit good cold-water
     detergency and biodegradability. The branched primary alc. has an average
number
     of branches per chain 0.7-3.0, having at least 8 carbon atoms and containing
     both Me and Et branches. The alc. is manufactured by skeletally isomerizing a
     C≥7 olefin feed or by dimerizing a C6-C10 olefin, followed by
     conversion to an alc. by hydroformylation, and ultimately
     sulfation, alkoxylation or both to obtain a detergent surfactant.
     Thus, purified C13-14 linear internal olefin was skeletally isomerized in
     a 3-zone tube furnace at 250-275° and 114 kPa for 26 h in the
     presence of a 1.59 mm extruded and calcined H-ferrierite containing 100 ppm Pd
     metal, then hydroformylated in the presence of a phosphine-modified Co
     catalyst, and the product distilled Distillates were stabilized and
     purified, giving a C14-15 alc. having average branches/chain 1.6, <2% linear
     alc., Me branches 38.9, Et branches 12.5, and C≥3 branches 32.5%.
     The sulfated C17 alc. showed 100% biodegrdn. in 28 days, and
     multisebum detergency 37 at 10° and 49 at 32°, compared with
     86, 16, and 34, resp., for a sulfated Neodol C14-15 alc.
ST
     branched primary alc prepn surfactant; olefin isomerization
     hydroformylation alc prepn; biodegradable detergent branched primary alc
     surfactant
ΙT
     Alkenes, reactions
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (C13-14, skeletal isomerization and hydroformylation of; highly
        branched primary alc. compns., preparation thereof and biodegradable
        detergents therefrom)
IT
     Alkenes, reactions
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (C4-8, dimerization and hydroformylation of; highly branched primary
        alc. compns., preparation thereof and biodegradable detergents therefrom)
ΙT
     Alkenes, reactions
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (C6-9, dimerization and hydroformylation of; highly branched primary
        alc. compns., preparation thereof and biodegradable detergents therefrom)
IT
     Detergents
        (biodegradable; highly branched primary alc. compns., preparation thereof
        and biodegradable detergents therefrom)
ΙT
     Alcohols, uses
     RL: IMF (Industrial manufacture); TEM (Technical or engineered material
```

```
use); PREP (Preparation); USES (Uses)
        (branched, C≥8 primary, sulfates; highly
        branched primary alc. compns., preparation thereof and biodegradable
        detergents therefrom)
IT
    Alcohols, uses
    RL: IMF (Industrial manufacture); TEM (Technical or engineered material
    use); PREP (Preparation); USES (Uses)
        (branched, primary; highly branched primary alc.
        compns., preparation thereof and biodegradable detergents therefrom)
IT
     Dimerization catalysts
        (for olefins; highly branched primary alc. compns., preparation thereof and
        biodegradable detergents therefrom)
ΙT
    Scouring agents
     Shampoos
     Surfactants
        (highly branched primary alc. compns., preparation thereof and biodegradable
        detergents therefrom)
IT
    Soaps
     RL: TEM (Technical or engineered material use); USES (Uses)
        (highly branched primary alc. compns., preparation thereof and biodegradable
        detergents therefrom)
ΙT
    Hydroformylation
        (of isomerized olefins; highly branched primary alc. compns., preparation
        thereof and biodegradable detergents therefrom)
ΙT
     Isomerization catalysts
        (palladium-containing ferrierite zeolites for olefins; highly branched
        primary alc. compns., preparation thereof and biodegradable detergents
        therefrom)
IT
     Ferrierite-type zeolites
     RL: CAT (Catalyst use); USES (Uses)
        (palladium-containing; highly branched primary alc. compns., preparation
thereof
        and biodegradable detergents therefrom)
ΙT
    Alcohols, uses
    RL: IMF (Industrial manufacture); TEM (Technical or engineered material
     use); PREP (Preparation); USES (Uses)
        (primary, C≥8- branched, sulfates; highly
        branched primary alc. compns., preparation thereof and biodegradable
        detergents therefrom)
TΤ
    Alcohols, uses
    RL: IMF (Industrial manufacture); TEM (Technical or engineered material
    use); PREP (Preparation); USES (Uses)
        (primary, branched; highly branched primary alc.
        compns., preparation thereof and biodegradable detergents therefrom)
ΙT
     7440-05-3, Palladium, uses
    RL: CAT (Catalyst use); USES (Uses)
        (ferrierite isomerization catalyst containing; highly branched primary alc.
        compns., preparation thereof and biodegradable detergents therefrom)
TT
    563-43-9, Dichloroethylaluminum, uses 1586-92-1, Diethyl
    aluminum ethoxide 14324-83-5 70776-98-6, Nickel
     2-ethylhexanoate trifluoroacetate
    RL: CAT (Catalyst use); USES (Uses)
        (olefin dimerization catalyst; highly branched primary alc. compns.,
        preparation thereof and biodegradable detergents therefrom)
TΤ
     629-73-2, Neodene 16 1120-36-1, Neodene 14
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (skeletal isomerization and hydroformylation of; highly branched
        primary alc. compns., preparation thereof and biodegradable detergents
        therefrom)
              THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 2
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RE
(1) Imperial Chemical Industries; FR 1151630 A 1958
(2) Monsanto Co; WO 8502175 A 1985 HCAPLUS
IT
     7440-05-3, Palladium, uses
     RL: CAT (Catalyst use); USES (Uses)
        (ferrierite isomerization catalyst containing; highly branched primary alc.
        compns., preparation thereof and biodegradable detergents therefrom)
     7440-05-3 HCAPLUS
RN
CN
     Palladium (8CI, 9CI) (CA INDEX NAME)
Pd
ΙT
     563-43-9, Dichloroethylaluminum, uses 1586-92-1, Diethyl
     aluminum ethoxide 14324-83-5 70776-98-6, Nickel
     2-ethylhexanoate trifluoroacetate
     RL: CAT (Catalyst use); USES (Uses)
        (olefin dimerization catalyst; highly branched primary alc. compns.,
        preparation thereof and biodegradable detergents therefrom)
RN
     563-43-9 HCAPLUS
CN
     Aluminum, dichloroethyl- (8CI, 9CI) (CA INDEX NAME)
   Cl
C1-A1-CH2-CH3
RN
     1586-92-1 HCAPLUS
     Aluminum; ethoxydiethyl- (6CI, 8CI, 9CI) (CA INDEX NAME)
CN
    OEt
Et-Al-Et
RN
     14324-83-5 HCAPLUS
CN
     Nickel, bis (1,1,1-\text{trifluoro}-2,4-\text{pentanedionato}-\kappa 0,\kappa 0')-(9CI)
     (CA INDEX NAME)
F3C
```

RN 70776-98-6 HCAPLUS
CN Nickel, (2-ethylhexanoato-κ0) (trifluoroacetato-κ0)- (9CI) (CA
INDEX NAME)

IT 629-73-2, Neodene 16 1120-36-1, Neodene 14

RL: RCT (Reactant); RACT (Reactant or reagent)
 (skeletal isomerization and hydroformylation of; highly branched
 primary alc. compns., preparation thereof and biodegradable detergents
 therefrom)

RN 629-73-2 HCAPLUS

CN 1-Hexadecene (8CI, 9CI) (CA INDEX NAME)

 $H_2C = CH - (CH_2)_{13} - Me$ 

RN 1120-36-1 HCAPLUS

CN 1-Tetradecene (6CI, 8CI, 9CI) (CA INDEX NAME)

 $H_2C = CH - (CH_2)_{11} - Me$ 

#### RETABLE

| enced Auth<br>(RAU) | (RP)                | () j | VOL   PG<br>(RVL) (RPG) | i  | eferenced<br>(RWK)                       |   | i | Referenced<br>File |
|---------------------|---------------------|------|-------------------------|----|--|---|---|--------------------|
| Chemical            | Indus 1958<br> 1985 | 3    |                         | FR | . 1151630 <i>i</i><br>. 8502175 <i>i</i> | A | Ì | HCAPLUS            |

#### => => d 1133 bib abs hitstr retable tot

L133 ANSWER 1 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:282007 HCAPLUS

DN 130:313523

TI Liquid crystal **detergent** compositions having good grease-soil removal properties and pretreatment of lipophilic soil therewith

IN Yianakopoulos, Georges; Blandiaux, Genevieve; Mondin, Myriam

PA Colgate Palmolive Company, USA

SO U.S., 7 pp., Cont.-in-part of U.S. Ser. No. 612,633, abandoned. CODEN: USXXAM

DT Patent

LA English

FAN.CNT 13

|      | PATENT NO.       | KIND      | DATE      | APPLICATION NO.           | DATE       |
|------|------------------|-----------|-----------|---------------------------|------------|
|      |                  |           |           |                           |            |
| PΙ   | US 5898026       | A         | 19990427  | US 1997-879378            | 19970620 < |
|      | US 5035826       | A         | 19910730  | US 1989-411280            | 19890922 < |
|      | US 5523013       | A         | 19960604  | US 1994-334107            | 19941104 < |
| PRAI | US 1989-411280   | A1        | 19890922  | <                         |            |
|      | US 1991-726597   | B2        | 19910708  | < `                       |            |
|      | US 1993-96501    | A2        | 19930903  | <                         |            |
|      | US 1994-334107   | A2        | 19941104  | <                         |            |
|      | US 1996-612633   | B2        | 19960306  | <                         |            |
| AB   | A liquid crystal | detergent | compositi | on comprises a water inso | l. organic |

compound, a nonionic surfactant, wood particles, an ethoxylated alkyl ether sulfate surfactant, a magnesium salt, a glycol ether cosurfactant, and water. The composition has improved interfacial tension for cleaning hard surfaces and good grease-soil removal properties without the need of or requiring only minimal addnl. rinsing or wiping. Thus, a liquid crystal detergent composition comprising Dobanol 91-5 12, sodium salt of ethoxylated alkyl ether sulfate 3, tripropylene glycol Bu ether 11.25, d-limonene 3.75, MgSO4.7H2O 0.98, Picea abies wood particles 4, and water to 100 weight% showed cleaning easiness index 0.34 (10% hard tallow), and 0.43 (10% hard tallow & 5% soft beef tallow) vs. a classical cream cleaner as reference

IT 34503-11-2, Polyethylene glycol sulfate sodium salt
RL: TEM (Technical or engineered material use); USES (Uses)
(surfactant; liquid crystal detergent compns. having good
grease-soil removal properties for lipophilic soil removal)

RN 34503-11-2 HCAPLUS

CN Poly(oxy-1,2-ethanediy1),  $\alpha$ -sulfo- $\omega$ -hydroxy-, monosodium salt (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{HO} & \hline & \text{CH}_2\text{-}\text{CH}_2\text{-}\text{O} \\ \hline & n \end{array} \\ \begin{array}{c} \text{SO}_3\text{H} \\ \end{array}$$

#### Na

| RETABLE | , |
|---------|---|
|---------|---|

| Referenced Author (RAU) | Year   VOL   PG<br> (RPY) (RVL) (RPG) | Referenced Work<br>    (RWK) | Referenced<br>  File |
|-------------------------|---------------------------------------|------------------------------|----------------------|
| Anon                    | 1985                                  | GB 2144763                   | HCAPLUS              |
| Denis                   | †1989                                 | US 4869842                   | HCAPLUS              |
| Dolan                   | 1996                                  | US 5523014                   | HCAPLUS              |
| Durbut                  | 1990                                  | US 4919839                   | HCAPLUS              |
| Durbut                  | 1991                                  | US 5035826                   | HCAPLUS              |
| Durbut                  | 1996                                  | US 5523013                   | HCAPLUS              |
| Goffinet                | 1983                                  | US 4414128                   | HCAPLUS              |
| Herbots                 | 1985                                  | US 4561991                   | HCAPLUS              |
| Kiewert                 | 1996                                  | US 5484548                   | HCAPLUS              |

L133 ANSWER 2 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1997:696835 HCAPLUS

DN 127:347959

TI **Detergent** compositions containing selected mid-chain branched alkyl surfactants

IN Connor, Daniel Stedman; Cripe, Thomas Anthony; Vinson, Phillip Kyle; Foley, Peter Robert; Willman, Kenneth William

PA Procter and Gamble Company, USA; Connor, Daniel Stedman; Cripe, Thomas Anthony; Vinson, Phillip Kyle; Foley, Peter Robert; Willman, Kenneth William

SO PCT Int. Appl., 113 pp.

. CODEN: PIXXD2

DT Patent

LA Énglish

FAN.CNT 9

PATENT NO. KIND DATE APPLICATION NO. DATE

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PΙ
     WO 9739090
                                 19971023
                                             WO 1997-US6474
                                                                     19970416 <--
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         RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
     CA 2252362
                                             CA 1997-2252362
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                                                                     19970416 <--
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                                 20020226
     EP 898610
                          A1
                                 19990303
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     US 1996-31844P
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                                 19961126
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     WO 1997-US6474
                          W
                                 19970416
     US 1998-170185
                          A3
                                 19981013
                                          <--
AB
     Title compns. comprise a mid-chain branched alkyl surfactant AbCH2B [Ab is
```

AB Title compns. comprise a mid-chain branched alkyl surfactant AbCH2B [Ab is a hydrophobic C9-22 alkyl having ≥1 C1-3 alkyl branches, at least one of which is attached to the 2 C or the ω-2 C (the 1 C is attached to the CH2 moiety); B is a hydrophilic sulfate, polyoxyalkylene, or alkoxylated sulfate group]; a bleaching agent, builder, or enzyme; and typical detergent components. The detergents are especially useful in cold water and/or hard water conditions.

IT 198080-23-8P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation of; in preparation of mid-chain branched alkyl surfactants for detergent compns.)

RN 198080-23-8 HCAPLUS

CN Poly(oxy-1,2-ethanediy1),  $\alpha$ -sulfo- $\omega$ -[(7-methylhexadecy1)oxy]-, sodium salt (9CI) (CA INDEX NAME)

Me (CH<sub>2</sub>)<sub>8</sub> - CH (CH<sub>2</sub>)<sub>6</sub> - O CH<sub>2</sub> - CH<sub>2</sub> - O 
$$\frac{1}{n}$$
 SO<sub>3</sub>H

● Na

# IT 198079-63-9P 198079-65-1P 198079-66-2P 198080-24-9P 198080-25-0P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation of; mid-chain branched alkyl surfactants for **detergent** compns.)

RN 198079-63-9 HCAPLUS

CN 1-Hexadecanol, 7-methyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)

Na

RN 198079-65-1 HCAPLUS

CN 1-Pentadecanol, 7-methyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)

Na

RN 198079-66-2 HCAPLUS

CN 1-Heptadecanol, 7-methyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)

Na

RN 198080-24-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylpentadecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)

Na

RN 198080-25-0 HCAPLUS

CN Poly(oxy-1,2-ethanediy1),  $\alpha$ -sulfo- $\omega$ -[(7-methylheptadecy1)oxy]-, sodium salt (9CI) (CA INDEX NAME)

Me (CH<sub>2</sub>) 9 - CH (CH<sub>2</sub>) 
$$_{6}$$
 - O - CH<sub>2</sub> - CH<sub>2</sub> - O -  $_{n}$  SO<sub>3</sub>H

Na

L133 ANSWER 3 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

1997:696834 HCAPLUS ΑN

127:347958 DN

- TΙ Liquid cleaning compositions containing selected mid-chain branched alkyl surfactants
- Connor, Daniel Stedman; Cripe, Thomas Anthony; Vinson, Phillip Kyle; IN Foley, Peter Robert
- PΑ Procter and Gamble Company, USA; Connor, Daniel Stedman; Cripe, Thomas Anthony; Vinson, Phillip Kyle; Foley, Peter Robert
- SO PCT Int. Appl., 102 pp. CODEN: PIXXD2

DTPatent

LA English

FAN.CNT 9

|      | PATENT NO.                | KIND DATE   | APPLICATION NO.         | DATE           |
|------|---------------------------|-------------|-------------------------|----------------|
| ΡI   | WO 9739089 W: BR, CA, CN, | A1 19971023 | WO 1997-US6473          | 19970416 <     |
|      | ·                         |             | FR, GB, GR, IE, IT, LU, | MC, NL, PT, SE |
|      | CA 2252434                | A1 19971023 | CA 1997-2252434         | 19970416 <     |
|      |                           | C 20021203  |                         |                |
|      |                           |             | EP 1997-921248          | 19970416 <     |
|      | EP 898607                 |             |                         |                |
|      |                           |             | GB, GR, IT, LI, LU, NL, |                |
|      | BR 9710430                | A 19990817  |                         |                |
|      | JP 2000503699             | T 20000328  | JP 1997-537382          |                |
|      | AT 221569                 |             | AT 1997-921248          |                |
|      | ES 2185936                |             | ES 1997-921248          |                |
|      | US 6046152                |             | US 1998-170425          |                |
|      | US 6087309                |             | US 1999-434181          | 19991104 <     |
| PRAI | US 1996-15521P            | P 19960416  |                         |                |
|      | US 1996-15523P            | P 19960416  | ·                       |                |
|      | US 1996-31762P            | P 19961126  | <                       |                |
|      | WO 1997-US6473            |             |                         |                |
|      | US 1998-170426            | A3 19981013 | <                       | <i>*</i>       |
| OS   | MARPAT 127:347958         |             |                         | *              |

AB

Liquid cleaning compns., shampoos, and dishwashing detergents comprise a mid-chain branched alkyl surfactant AbCH2B [Ab is a hydrophobic C9-22 alkyl having  $\geq 1$  C1-3 alkyl branches, at least one of which is attached to the 2 C or the  $\omega-2$  C (the 1 C is attached to the CH2 moiety); B is a hydrophilic sulfate, polyoxyalkylene, or alkoxylated sulfate group]; an anionic, cationic, nonionic, amphoteric, or zwitterionic co-surfactant; solvent; and typical ingredients for the specified use.

IT198079-63-9P 198079-65-1P 198079-66-2P

198080-23-8P 198080-24-9P 198080-25-0P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation of; mid-chain branched alkyl surfactants for liquid cleaning compns.)

RN 198079-63-9 HCAPLUS

CN 1-Hexadecanol, 7-methyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)

● Na

RN 198079-65-1 HCAPLUS

CN 1-Pentadecanol, 7-methyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)

Na

RN 198079-66-2 HCAPLUS

CN

1-Heptadecanol, 7-methyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)

Na

RN 198080-23-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylhexadecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)

Me (CH<sub>2</sub>) 
$$_{8}$$
 - CH- (CH<sub>2</sub>)  $_{6}$  - O - CH<sub>2</sub> - CH<sub>2</sub> - O -  $_{n}$  SO<sub>3</sub>H

Na

RN 198080-24-9 HCAPLUS

CN Poly(oxy-1,2-ethanediy1),  $\alpha$ -sulfo- $\omega$ -[(7-methylpentadecy1)oxy]-, sodium salt (9CI) (CA INDEX NAME)

Me (CH<sub>2</sub>) 
$$_{7}$$
 - CH - (CH<sub>2</sub>)  $_{6}$  - O - CH<sub>2</sub> - CH<sub>2</sub> - O -  $_{n}$  SO<sub>3</sub>H

🕨 Na

RN 198080-25-0 HCAPLUS

CN Poly(oxy-1,2-ethanediy1),  $\alpha$ -sulfo- $\omega$ -[(7-methylheptadecy1)oxy]-, sodium salt (9CI) (CA INDEX NAME)

Me (CH<sub>2</sub>) 9 CH (CH<sub>2</sub>) 
$$_{6}$$
 CH<sub>2</sub> CH<sub>2</sub> CH<sub>2</sub> O  $_{n}$  SO<sub>3</sub>H

Na

L133 ANSWER 4 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN.

AN 1997:696833 HCAPLUS

DN 127:347941

- TI Mid-chain branched primary alkyl sulfate mixtures as surfactants and their use in **detergents**
- IN Connor, Daniel Stedman; Cripe, Thomas Anthony; Vinson, Phillip Kyle; Willman, Kenneth William; Burckett-St. Laurent, James Charles T. R.; Dupont, Jeffrey Scott
- PA Procter and Gamble Company, USA; Connor, Daniel Stedman; Cripe, Thomas Anthony; Vinson, Phillip Kyle; Willman, Kenneth William; Burckett-St. Laurent, James Charles T. R.; Dupont, Jeffrey Scott
- SO PCT Int. Appl., 113 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 9

| L MIA | >IA I | פ    |     |     |     |     |     |      |      |     |       |       |      |     |     |     |      |     |    |
|-------|-------|------|-----|-----|-----|-----|-----|------|------|-----|-------|-------|------|-----|-----|-----|------|-----|----|
| -     | PAT   | TENT | NO. |     |     | KIN | D   | DATE |      |     | APPL: | ICAT  | ION  | NO. |     | D   | ATE  |     |    |
|       |       |      |     |     |     |     | -   |      |      |     |       |       |      |     |     |     |      |     |    |
| ΡI    | WO    | 9739 | 880 |     |     | A1  |     | 1997 | 1023 | Ī   | WO 1  | 997-1 | US64 | 72  |     | 1:  | 9970 | 416 | <  |
|       |       | w:   | AL, | AM, | AT, | ΑU, | AZ, | BA,  | BB,  | BG, | ₿R,   | BY,   | CA,  | CH, | CN, | CU, | CZ,  | DE, |    |
|       |       |      |     |     |     |     |     | GE,  |      |     |       |       |      |     |     |     |      |     |    |
|       |       |      | LK, | LR, | LS, | LT, | LU, | LV,  | MD,  | MG, | MK,   | MN,   | MW,  | MX, | NO, | ΝZ, | PL,  | PT, |    |
|       |       |      | RO, | RU, | SD, | SE, | SG, | SI,  | SK,  | ТJ, | TM,   | TR,   | TT,  | UA, | UG, | US, | UZ,  | VN, | YU |
|       |       | RW:  | GH, | KE, | LS, | MW, | SD, | SZ,  | UG,  | AT, | BE,   | CH,   | DE,  | DK, | ES, | FI, | FR,  | GB, |    |
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|       |       |      | ML, | MR, | ΝE, | SN, | TD, | ΤG   |      |     |       |       |      |     |     |     |      |     |    |
|       | EG    | 2118 | 3   |     |     | Α   |     | 2000 | 1231 |     | EG 1: | 997   | 312  |     |     | 1:  | 9970 | 415 | <  |
|       | CA    | 2252 | 359 |     |     | A1  |     | 1997 | 1023 | (   | CA 1: | 997-: | 2252 | 359 |     | 1:  | 9970 | 416 | <  |
|       | ΑU    | 9729 | 231 |     |     | Α   |     | 1997 | 1107 |     | AU 1  | 997-: | 2923 | 1   |     | 1:  | 9970 | 416 | <  |
|       | ΑU    | 7275 | 54  |     |     | В2  |     | 2000 | 1214 |     |       |       |      |     |     |     |      |     |    |

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EP 898609
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    WO 1997-US6472
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                                 19970416
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OS MARPAT 127:347941

AΒ Title surfactants CH3CH2(CH2)wCRH(CH2)xCR1H(CH2)yCR2H(CH2)zOSO3M, [total C atoms = 14-20 (including R, R1, and R2); R-R2 = H, C1-3 alkyl; when z = 1, R or R1  $\neq$  H; M is  $\geq$ 1 cation; w, x, y = 0-13; z =  $\geq$ 1; w + x + y + z = 8-14; CH3CH2(CH2)xCR1H(CH2)yCR2H(CH2)zOSO3M [R1, R2 = H, C1-3 alkyl (both cannot be H); M = water-soluble cation; x, y, = 0-12; z $\geq 2$ ; x + y + z = 11-14]; CH3(CH2)aCHMe(CH2)bCH2OSO3M [M = Na, K, (substituted) ammonium; a = 2-11; b = 1-10; a + b = 12 or 13]; etc.; are useful in laundry and cleaning compns., especially granular and liquid detergent compns. used at low water temperature

ΙT 198079-65-1P

RL: IMF (Industrial manufacture); PREP (Preparation) (preparation of; mid-chain branched primary alkyl sulfate mixts. as surfactants and their use in detergents)

RN 198079-65-1 HCAPLUS

CN 1-Pentadecanol, 7-methyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX

Ме  $HO_3SO - (CH_2)_6 - CH - (CH_2)_7 - Me$ 

Na

#### IT 198079-63-9P 198079-66-2P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation of; mid-chain branched primary alkyl sulfate mixts. as surfactants and their use in detergents)

RN 198079-63-9 HCAPLUS

CN 1-Hexadecanol, 7-methyl-, hydrogen sulfate, sodium salt (9CI) NAME)

Na

RN 198079-66-2 HCAPLUS
CN 1-Heptadecanol, 7-methyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)

Me | | HO3SO- (CH2)6-CH- (CH2)9-Me

Na

PΙ

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L133 ANSWER 5 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
    1997:696832 HCAPLUS
DN
     127:347940
ΤI
    Mid-chain branched primary alkyl alkoxylated sulfate surfactants, mixtures
     thereof, and detergent compositions containing them
     Connor, Daniel Stedman; Cripe, Thomas Anthony; Vinson, Phillip Kyle;
ΙN
     Willman, Kenneth William; Burckett-St. Laurent, James Charles T. R.
PΑ
     Procter and Gamble Company, USA; Connor, Daniel Stedman; Cripe, Thomas
     Anthony; Vinson, Phillip Kyle; Willman, Kenneth William; Burckett-St.
     Laurent, James Charles T. R.
     PCT Int. Appl., 114 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 9
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| PAT | CENT : | NO. |     |     | KIN | DATE APPLICATIO |      |      |     |      |              |       | NO. |     | D   | ATE  |     |    |
|-----|--------|-----|-----|-----|-----|-----------------|------|------|-----|------|--------------|-------|-----|-----|-----|------|-----|----|
| WO  | 9739   | 087 |     |     | A1  | <del></del>     | 1997 | 1023 | ,   | WO 1 | 997 <b>-</b> | US 64 | 71  |     | 1   | 9970 | 416 | <  |
|     | W:     | AL, | AM, | ΑT, | ΑU, | ΑZ,             | BA,  | BB,  | BG, | BR,  | BY,          | CA,   | CH, | CN, | CU, | CZ,  | DE, |    |
|     |        | DK, | EE, | ES, | FI, | GB,             | GE,  | HU,  | IL, | IS,  | JP,          | ΚE,   | KG, | ΚP, | KR, | ΚZ,  | LC, |    |
|     |        | LK, | LR, | LS, | LT, | LU,             | LV,  | MD,  | MG, | MK,  | MN,          | MW,   | MX, | NO, | NZ, | PL,  | PT, |    |
|     |        | RO, | RU, | SD, | SE, | SG,             | SI,  | SK,  | ТJ, | TM,  | TR,          | TT,   | UA, | UG, | US, | UZ,  | VN, | YU |
|     | RW:    | GH, | KE, | LS, | MW, | SD,             | SZ,  | UG,  | AT, | BE,  | CH,          | DE,   | DK, | ES, | FI, | FR,  | GB, |    |
|     |        | GR, | ΙE, | IT, | LU, | MC,             | ŇL,  | PT,  | SE, | BF,  | ВJ,          | CF,   | CG, | CI, | CM, | GA,  | GN, |    |
|     |        | ML, | MR, | ΝE, | SN, | TD,             | ΤG   |      |     |      |              |       |     |     |     |      |     |    |
| EG  | 2208   | 8   |     |     | Α   |                 | 2002 | 0727 |     | EG 1 | 997-         | 311   |     |     | 1   | 9970 | 311 | <  |
| CA  | 2252   | 363 |     |     | A1  |                 | 1997 | 1023 |     | CA 1 | 997-         | 2252  | 363 |     | 1   | 9970 | 416 | <  |
|     | 9726   |     |     |     |     |                 | 1997 | 1107 |     | AU 1 | 997-         | 2675  | 4   |     | 1   | 9970 | 416 | <  |
| EΡ  | 8986   | 06  |     |     | A1  |                 | 1999 | 0303 |     | EP 1 | 997-         | 9187  | 19  |     | 1   | 9970 | 416 | <  |
| ĒΡ  | 8986   | 06  |     |     | В1  |                 | 2001 | 1212 |     | ~    |              |       |     |     |     |      |     |    |
|     | R:     | AT, | BE, | CH, | DE, | DK,             | ES,  | FR,  | GB, | GR,  | IT,          | LI,   | LU, | NL, | SE, | PT,  | ΙE, | FI |
|     | 1150   |     |     |     | Т   |                 | 1999 | 0713 |     | JP 1 | 997-         | 5373  | 80  |     | 1   | 9970 | 416 | <  |
| JP  | 3833   | 264 |     |     | В2  |                 | 2006 | 1011 |     |      |              |       |     |     |     |      |     |    |
| BR  | 9710   | 655 |     |     | Α   |                 | 1999 | 0817 |     | BR 1 | 997-         | 1065  | 5   |     | 1   | 9970 | 416 | <  |
| AT  | 2107   | 16  |     |     | T   |                 | 2001 | 1215 |     | AT 1 | 997-         | 9187  | 19  |     | 1   | 9970 | 416 | <  |
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Page 22

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     US 1996-32035P
                                  19961126
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                           W
     WO 1997-US6471
                                  19970416
AΒ
     Title surfactants CH3CH2(CH2)wCRH(CH2)xCR1H(CH2)yCR2H(CH2)z(EO/PO)mOSO3M,
     [total C atoms = 14-20 (including R, R1, and R2 but excluding the EO/PO
     moiety); R-R2 = H, C1-3 alkyl; when z = 1 R or R1 \neq H; M is
     \geq 1 cation; w, x, y = 0-13; z = \geq 1; w + x + y + z = 8-14; m
     \geq0.01]; CH3CH2(CH2)xCR1H(CH2)yCR2H(CH2)z(EO/PO)mOSO3M [R1, R2 = H,
     C1-3 alkyl (both cannot be H); M = \text{water-soluble cation}; x, y, = 0-12; z
     \geq 2; x + y + z = 11-14; m \geq 0.01];
     CH3(CH2)aCHMe(CH2)bCH2(EO/PO)mOSO3M [M = Na, K, Mq, (substituted)
     ammonium; a = 2-11; b = 1-10; a + b = 12 or 13; m \ge 0.01]; etc.; are
     useful in laundry and cleaning compns., especially granular and liquid
     detergent compns. used at low water temperature
ΙT
     198082-04-1D, salts 198082-05-2D, salts
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     198082-08-5D, salts 198082-09-6D, salts
     198082-10-9D, salts 198082-11-0D, salts
     198082-12-1D, salts 198082-13-2D, salts
     198082-14-3D, salts 198082-15-4D, salts
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     RL: TEM (Technical or engineered material use); USES (Uses)
        (mid-chain branched primary alkyl alkoxylated sulfate surfactants for
        cleaning compns.)
RN
     198082-04-1 HCAPLUS
CN
     Poly(oxy-1,2-ethanediyl), \alpha-sulfo-\omega-[(3-methylpentadecyl)oxy]-
            (CA INDEX NAME)
Me- (CH<sub>2</sub>)<sub>11</sub>-CH-CH<sub>2</sub>-CH<sub>2</sub>-O-CH<sub>2</sub>-O-CH<sub>2</sub>-O-D<sub>n</sub> SO<sub>3</sub>H
RN
     198082-05-2 HCAPLUS
```

Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(4-methylpentadecyl)oxy]-

CN

(9CI) (CA INDEX NAME)

RN 198082-06-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(5-methylpentadecyl)oxy]-(9CI) (CA INDEX NAME)

Me (CH<sub>2</sub>) 9 CH (CH<sub>2</sub>) 
$$_4$$
 O CH<sub>2</sub> CH<sub>2</sub> CH<sub>2</sub> O SO<sub>3</sub>H

RN 198082-07-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(6-methylpentadecyl)oxy]-(9CI) (CA INDEX NAME)

Me (CH<sub>2</sub>)<sub>8</sub> - CH - (CH<sub>2</sub>)<sub>5</sub> - O - CH<sub>2</sub> - CH<sub>2</sub> - O - 
$$\frac{1}{n}$$
 SO<sub>3</sub>H

RN 198082-08-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylpentadecyl)oxy]-(9CI) (CA INDEX NAME)

Me (CH<sub>2</sub>) 
$$_{7}$$
 - CH- (CH<sub>2</sub>)  $_{6}$  - O CH<sub>2</sub>- CH<sub>2</sub>- O  $_{n}$  SO<sub>3</sub>H

RN . 198082-09-6 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(8-methylpentadecyl)oxy]-(9CI) (CA INDEX NAME)

Me (CH<sub>2</sub>) 
$$_{6}$$
 - CH- (CH<sub>2</sub>)  $_{7}$  - O CH<sub>2</sub> - CH<sub>2</sub> - O  $_{n}$  SO<sub>3</sub>H

RN 198082-10-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(9-methylpentadecyl)oxy]-(9CI) (CA INDEX NAME)

RN 198082-11-0 HCAPLUS CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(10-methylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-12-1 HCAPLUS CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(11-methylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-13-2 HCAPLUS CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(12-methylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{Me} & \\ & \\ \text{n-Pr-CH-} (\text{CH}_2)_{11} - \text{O} & \\ \hline \end{array} \\ \text{CH}_2 - \text{CH}_2 - \text{O} \\ \hline \end{array} \\ \begin{array}{c|c} \text{No SO3H} \\ \end{array}$$

RN 198082-14-3 HCAPLUS CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(13-methylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

$$Me$$
|
Et-CH-(CH<sub>2</sub>)<sub>12</sub>-O-CH<sub>2</sub>-CH<sub>2</sub>-O- $\frac{1}{n}$  SO<sub>3</sub>H

RN 198082-15-4 HCAPLUS CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(3-methylhexadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-16-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(4-methylhexadecyl)oxy]-(9CI) (CA INDEX NAME)

RN 198082-17-6 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(5-methylhexadecyl)oxy]-(9CI) (CA INDEX NAME)

RN 198082-18-7 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(6-methylhexadecyl)oxy]- (9CI) (CA INDEX NAME)

Me (CH<sub>2</sub>) 9 CH (CH<sub>2</sub>) 5 O CH<sub>2</sub> CH<sub>2</sub> CH<sub>2</sub> O 
$$\frac{1}{n}$$
 SO<sub>3</sub>H

RN 198082-19-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylhexadecyl)oxy]-(9CI) (CA INDEX NAME)

Me (CH<sub>2</sub>) 
$$_{8}$$
 - CH- (CH<sub>2</sub>)  $_{6}$  - O - CH<sub>2</sub> - CH<sub>2</sub> - O -  $_{n}$  SO<sub>3</sub>H

RN 198082-20-1 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(8-methylhexadecyl)oxy]-(9CI) (CA INDEX NAME)

RN 198082-21-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(9-methylhexadecyl)oxy]-(9CI) (CA INDEX NAME)

RN 198082-22-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(10-methylhexadecyl)oxy]-(9CI) (CA INDEX NAME)

RN 198082-23-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(11-methylhexadecyl)oxy]-(9CI) (CA INDEX NAME)

RN 198082-24-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(12-methylhexadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-25-6 HCAPLUS

CN Poly(oxy-1,2-ethanediy1),  $\alpha$ -sulfo- $\omega$ -[(13-methylhexadecy1)oxy]-(9CI) (CA INDEX NAME)

RN 198082-26-7 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(14-methylhexadecyl)oxy]-(9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{Me} \\ \hline \\ \text{Et-CH-} (\text{CH}_2)_{13} - \text{O} \\ \hline \end{array} \begin{array}{c} \text{CH}_2 - \text{CH}_2 - \text{O} \\ \hline \\ \text{n} \end{array} \text{SO}_3 \text{H}$$

RN 198082-27-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,3-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-28-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,4-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-29-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,5-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-30-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,6-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-31-4 HCAPLUS CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,7-

dimethyltetradecyl)oxy] - (9CI) (CA INDEX NAME)

RN 198082-32-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,8-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-33-6 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,9-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-34-7 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,10-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

$$_{HO_3S}$$
  $_{O-CH_2-CH_2}$   $_{O-CH_2-CH-(CH_2)_7-CH-Bu-n}$ 

RN 198082-35-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,11-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-36-9 HCAPLUS

CN Poly(oxy-1,2-ethanediy1),  $\alpha$ -sulfo- $\omega$ -[(2,12-dimethyltetradecy1)oxy]- (9CI) (CA INDEX NAME)

RN 198082-37-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,3-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-38-1 HCAPLUS

CN Poly(oxy-1,2-ethanediy1),  $\alpha$ -sulfo- $\omega$ -[(2,4-dimethylpentadecy1)oxy]- (9CI) (CA INDEX NAME)

RN 198082-39-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,5-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-40-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,6-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-41-6 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,7-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-42-7 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,8-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-43-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,9-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-44-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,10-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-45-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,11-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

HO3S 
$$O-CH_2-CH_2$$
  $O-CH_2-CH-(CH_2)_8-CH-Bu-n$ 

RN 198082-46-1 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,12-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-47-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,13-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

#### IT 198080-23-8P 198080-24-9P 198080-25-0P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation of; mid-chain branched primary alkyl alkoxylated sulfate surfactants for cleaning compns.)

RN 198080-23-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylhexadecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)

Me (CH<sub>2</sub>)<sub>8</sub>-CH-(CH<sub>2</sub>)<sub>6</sub>-O CH<sub>2</sub>-CH<sub>2</sub>-O 
$$n$$
 SO<sub>3</sub>H

Na

RN 198080-24-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylpentadecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)

Me (CH<sub>2</sub>)<sub>7</sub> - CH (CH<sub>2</sub>)<sub>6</sub> - O CH<sub>2</sub> - CH<sub>2</sub> - CH<sub>2</sub> - O 
$$\frac{1}{n}$$
 SO<sub>3</sub>H

Na

RN 198080-25-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylheptadecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)

Me (CH<sub>2</sub>) 
$$_{9}$$
 - CH (CH<sub>2</sub>)  $_{6}$  - O CH<sub>2</sub> - CH<sub>2</sub> - O SO<sub>3</sub>H

Na

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L133 ANSWER 6 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
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AN 1997:696739 HCAPLUS

DN 127:347939

TI Manufacturing sulfates of longer chain branched alkanols and/or alkoxylated alkanols

IN Connor, Daniel Stedman; Cripe, Thomas Anthony; Jacobs, Roger Craig; Jensen, Michael Chris

PA Procter and Gamble Company, USA; Connor, Daniel Stedman; Cripe, Thomas Anthony; Jacobs, Roger Craig; Jensen, Michael Chris

SO PCT Int. Appl., 35 pp. CODEN: PIXXD2

DT Patent

LA English

FAN CNT 9

| FAN | I.CNT 9        |                               |                         |                |
|-----|----------------|-------------------------------|-------------------------|----------------|
|     | PATENT NO.     | KIND DATE                     | APPLICATION NO.         | DATE           |
| ΡI  |                | A1 19971023<br>CN, JP, MX, US | WO 1997-US6338          | 19970416 <     |
|     |                |                               | FR, GB, GR, IE, IT, LU, | MC. NI. PT. SE |
|     |                |                               | CA 1997-2252437         | •              |
|     | CA 2252437     | C 20031021                    |                         |                |
|     | EP 906274      | A1 19990407                   | EP 1997-920414          | 19970416 <     |
|     | EP 906274      | B1 20010613                   |                         |                |
|     | R: AT, BE,     | CH, DE, DK, ES, FR,           | GB, GR, IT, LI, LU, NL, | SE, PT, IE, FI |
|     | JP 11507987    | T 19990713                    | JP 1997-537348          | 19970416 <     |
|     | JP 3043434     | B2 20000522                   |                         |                |
|     | BR 9708691     | A 19990803                    | BR 1997-8691            | 19970416 <     |
|     | ES 2157572     | T3 20010816                   | ES 1997-920414          | 19970416 <     |
|     | CN 1312126     | A 20010912                    | CN 2001-103445          | 20010205 <     |
|     | GR 3036051     | T3 20010928                   | GR 2001-400893          | 20010614 <     |
| PRA |                | P 19960416                    | <                       |                |
|     | US 1996-15523P | P 19960416                    | <                       |                |
|     | US 1996-31761P | P 19961126                    | <                       |                |

WO 1997-US6338 W 19970416

AB Sulfation of fatty alcs. for producing longer chain length alkyl sulfate and/or alkyl alkoxylated sulfate surfactant is carried out in the presence of a significant amount of mid-chain branched alc. and/or polyoxyalkylene alc. to significantly reduce the reaction temperature, improving product quality

and saving energy. The Wittig adduct of triphenylphosphine and 6-bromo-1-hexanol was treated with 2-undecanone and the resulting Me-branched alc. product was hydrogenated and alkoxylated to give a branched surfactant precursor.

IT 198141-29-6P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(manufacturing sulfates of longer chain branched alkanols and/or alkoxylated alkanols)

RN 198141-29-6 HCAPLUS

CN Poly(oxy-1,2-ethanediy1),  $\alpha$ -sulfo- $\omega$ -[(7-methylheptadecy1)oxy]-(9CI) (CA INDEX NAME)

Me (CH<sub>2</sub>) 9 CH (CH<sub>2</sub>) 
$$_{6}$$
 CH<sub>2</sub> CH<sub>2</sub> CH<sub>2</sub> CH<sub>2</sub> SO<sub>3</sub>H

L133 ANSWER 7 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1997:568259 HCAPLUS

DN 127:207329

TI Reduced residue hard surface cleaner comprising hydrotrope

IN Ryklin, Irma; Malik, Arshad

PA Stepan Company, USA; Ryklin, Irma; Malik, Arshad

SO PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| PI WO 9730140  W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN  RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG  CA 2218256  CA 2218256  CA 2218256  CA 2218256  CA 19970902  AU 1997-19557  AU 728470  B2 20010111  EP 842251  B1 20051026  R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI  JP 10508901  T 19980902  JP 1997-529427  19970213                        | PATENT NO. |    |      |      |     |     | KIND DATE |     |      | APPLICATION NO. |     |      |       |       | DATE |     |     |       |     |                 |
|---|------------|----|------|------|-----|-----|-----------|-----|------|-----------------|-----|------|-------|-------|------|-----|-----|-------|-----|-----------------|
| ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN  RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG  CA 2218256  A1 19970821 CA 1997-2218256 19970213  CA 2218256  A1 19970902 AU 1997-19557 19970213  AU 728470  B2 20010111  EP 842251  B1 19980520 EP 1997-907590 19970213  EP 842251  R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI  JP 10508901  T 19980902 JP 1997-529427 19970213   | I V        | WO | 9730 | 140  |     |     | A1        |     | 1997 | 0821            | Ţ   | WO 1 | 997-1 | JS21  | 07   |     | 19  | 9702  | 213 | <- <b>-</b>     |
| LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN  RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG  CA 2218256  CA 2218256  CA 2218256  CA 2218256  CA 2218256  A1 19970821  CA 1997-2218256  CA 1997-2218256  CA 1997-2218256  CA 1997-2218256  CA 1997-2218256  CA 1997-2218256  PR 19970213  AU 1997-19557  AU 19970213  EP 842251  AI 19980520  EP 1997-907590  AU 19970213  EP 842251  BI 20051026  R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI  JP 10508901  T 19980902  JP 1997-529427  19970213 |            |    | W:   | AL,  | AM, | AT, | AU,       | AZ, | BB,  | BG,             | BR, | BY,  | CA,   | CH,   | CN,  | CZ, | DE, | DK,   | EE, |                 |
| SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG  CA 2218256 A1 19970821 CA 1997-2218256 19970213 CA 2218256 C 20060530 AU 9719557 A 19970902 AU 1997-19557 19970213 AU 728470 B2 20010111 EP 842251 A1 19980520 EP 1997-907590 19970213 EP 842251 B1 20051026 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI JP 10508901 T 19980902 JP 1997-529427 19970213  |            |    |      |      |     |     |           |     |      |                 |     |      |       |       |      |     |     |       |     |                 |
| RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG  CA 2218256  CA 2218256  CA 2218256  CA 2218256  CA 29719557  A 19970902  AU 1997-19557  AU 728470  B2 20010111  EP 842251  A1 19980520  EP 1997-907590  19970213  EP 842251  B1 20051026  R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI  JP 10508901  T 19980902  JP 1997-529427  19970213  |            |    |      |      |     |     |           |     |      |                 |     |      |       |       |      |     | RO, | RU,   | SD, |                 |
| IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG  CA 2218256  CA 1997-2218256  A1 19970902  AU 1997-19557  AU 728470  B2 20010111  EP 842251  A1 19980520  EP 1997-907590  19970213  EP 842251  B1 20051026  R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI  JP 10508901  T 19980902  JP 1997-529427  19970213   |            |    | 5    |      |     |     |           |     |      |                 |     |      |       |       |      |     |     |       |     |                 |
| MR, NE, SN, TD, TG  CA 2218256     A1 19970821 CA 1997-2218256 19970213  CA 2218256 C 20060530  AU 9719557 A 19970902 AU 1997-19557 19970213  AU 728470 B2 20010111  EP 842251 A1 19980520 EP 1997-907590 19970213  EP 842251 B1 20051026  R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI  JP 10508901 T 19980902 JP 1997-529427 19970213  |            |    | RW:  |      |     |     |           |     |      |                 |     |      |       |       |      |     |     |       |     |                 |
| CA 2218256 A1 19970821 CA 1997-2218256 19970213 CA 2218256 C 20060530 AU 9719557 A 19970902 AU 1997-19557 19970213 AU 728470 B2 20010111 EP 842251 A1 19980520 EP 1997-907590 19970213 EP 842251 B1 20051026 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI  JP 10508901 T 19980902 JP 1997-529427 19970213  |            |    |      |      |     |     |           |     | PT,  | SE,             | BF, | BJ,  | CF,   | CG,   | CI,  | CM, | GA, | GN,   | ML, |                 |
| CA 2218256 C 20060530  AU 9719557 A 19970902 AU 1997-19557 19970213  AU 728470 B2 20010111  EP 842251 A1 19980520 EP 1997-907590 19970213  EP 842251 B1 20051026  R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI  JP 10508901 T 19980902 JP 1997-529427 19970213   |            |    |      |      |     | •   | •         |     |      |                 |     |      |       |       |      |     |     |       |     |                 |
| AU 9719557 A 19970902 AU 1997-19557 19970213 AU 728470 B2 20010111 EP 842251 A1 19980520 EP 1997-907590 19970213 EP 842251 B1 20051026 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI JP 10508901 T 19980902 JP 1997-529427 19970213   |            |    |      |      |     |     |           |     |      |                 | (   | CA 1 | 997-2 | 2218: | 256  |     | 19  | 99702 | 213 | <               |
| AU 728470 B2 20010111 EP 842251 A1 19980520 EP 1997-907590 19970213 EP 842251 B1 20051026 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI  JP 10508901 T 19980902 JP 1997-529427 19970213   |            | CA | 2218 | 256  |     |     | С         |     | 2006 | 0530            |     |      |       |       |      |     |     |       |     |                 |
| EP 842251 A1 19980520 EP 1997-907590 19970213 EP 842251 B1 20051026 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI  JP 10508901 T 19980902 JP 1997-529427 19970213   | I          | ΑU | 9719 | 557  |     |     | Α         |     | 1997 | 0902            | Ž   | AU 1 | 997-  | 1955  | 7    |     | 19  | 99702 | 213 | <- <del>-</del> |
| EP 842251 B1 20051026 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI  JP 10508901 T 19980902 JP 1997-529427 19970213   | I          | ΑU | 7284 | 70   |     |     | В2        |     | 2001 | 0111            |     |      |       |       |      |     |     |       |     |                 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI  JP 10508901 T 19980902 JP 1997-529427 19970213   | E          | EΡ | 8422 | 51   |     |     | A1        |     | 1998 | 0520            | ]   | EP 1 | 997-  | 9075  | 90   |     | 19  | 9702  | 213 | <               |
| IE, FI<br>JP 10508901 T 19980902 JP 1997-529427 19970213  | E          | EΡ | 8422 | 51   |     |     | В1        |     | 2005 | 1026            |     |      |       |       |      |     |     |       |     |                 |
| JP 10508901 T 19980902 JP 1997-529427 19970213  |            |    | R:   | AT,  | BE, | CH, | DE,       | DK, | ES,  | FR,             | GB, | GR,  | ΙT,   | LI,   | LU,  | NL, | SE, | MC,   | PT, |                 |
|   |            |    |      | ΙE,  |     |     |           |     |      |                 |     |      |       |       |      |     |     |       |     |                 |
| .TP 3005050 B2 20000131   | Ţ          | JΡ | 1050 | 8901 |     |     | T         |     | 1998 | 0902            | ı   | JP 1 | 997-  | 52942 | 27   |     | 19  | 9970  | 213 | <               |
| 01 3003030 DZ 20000131  |            | JΡ | 3005 | 050  |     |     | В2        |     | 2000 | 0131            |     |      |       |       |      |     |     |       |     |                 |
| NZ 329010 A 20000428 NZ 1997-329010 19970213  | N          | ΝZ | 3290 | 10   |     |     | Α         |     | 2000 | 0428            | ]   | NZ 1 | 997-  | 3290  | 10.  |     | 19  | 9702  | 213 | <               |
| AT 307868 T 20051115 AT 1997-907590 19970213  | Į          | AT | 3078 | 68   |     |     | T         |     | 2005 | 1115            | Ž   | AT 1 | 997-  | 9075  | 90   |     | 19  | 970   | 213 | <               |

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BR 9702063
                                19980609
                          Α
                                            BR 1997-2063
                                                                   19971014 <--
     US 6281178
                          В1
                                20010828
                                            US 1999-410724
                                                                   19991001 <--
PRAI US 1996-11661P
                                19960214 <--
                        P
     WO 1997-US2107
                         W
                                19970213
     Hard surface cleaning compns. comprise detergent surfactant and
AB
     detergent builder and a hydrotrope to prevent filming and/or
     streaking after a surface is cleaned.
     126-92-1, Sodium Octyl sulfate
ΙT
     RL: MOA (Modifier or additive use); USES (Uses)
        (hydrotrope for streaking-resistant hard surface cleaner containing
        surfactants and builders)
     126-92-1 HCAPLUS
RN
CN
     Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX
     NAME)
   CH2-OSO3H
Et-CH-Bu-n
```

Na

applications

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L133 ANSWER 8 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
ΑN
    1997:503558 HCAPLUS
DN
     127:137368
TΙ
     Surfactant blend of organosilicone and surfactants
ΙN
    Gao, Tao; Dahanayake, Manilal S.; Tracy, David James
PΑ
     Rhone-Poulenc Specialty Chemicals Co., USA
SO
     PCT Int. Appl., 34 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                        KIND
                               DATE
                                         APPLICATION NO.
                                                                DATE
     _____
                       . ____
                               -----
                                          ______
                                                                 -----
                                          WO 1996-IB1408
PΤ
    WO 9723281
                        A1
                               19970703
                                                                 19961210 <--
        W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
            DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK,
            LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO,
            RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN
        RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
                                           AU 1996-77058
    AU 9677058
                         Α
                               19970717
                                                                  19961210 <--
    AU 709352
                         B2
                               19990826
    EP 868211
                               19981007
                                           EP 1996-940063
                         A1
                                                                  19961210 <--
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, FI
    BR 9612271
                               20010102
                                           BR 1996-12271
                         A
                                                                 19961210 <--
PRAI US 1995-576749
                        Α
                               19951221 <--
    WO 1996-IB1408
                         W
                               19961210
    Surfactant blends with improved superspreading comprise 60-95% of
AB
     organosilicone compds. such as (Me3SiO)2Si(Me) CH2CH2 CH2(OCH2 CH2)7.5OMe
    mixed with 5-30% non-silicone surfactant(s) containing hydrophobic groups
     comprising C4-12 aliphatic groups. This surfactant blend provides clear
    solns. With improved spreading efficacy as well as improved surface
     tension. The surfactant blend is especially useful in agricultural
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as an adjuvant for the delivery of agricultural active ingredients, such as fertilizers, micronutrients, biologicals, pesticides, herbicides, fungicides and growth regulators to treatment sites. A blend contained Silwet L77 and sodium 2-ethylhexyl sulfate.

IT 126-92-1, Sodium 2-ethylhexyl sulfate RL: POF (Polymer in formulation); TEM (Technical or engineered material

use); USES (Uses)
 (Rhodapon BOS; surfactant blend of organosilicone and surfactants)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)

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CH2-OSO3H
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Na

L133 ANSWER 9 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1997:400479 HCAPLUS

DN 127:78238

TI Methods and compositions for isolating nucleic acids

IN Wiggins, James C.

PA USA

SO U.S., 15 pp. CODEN: USXXAM

DT Patent LA English

FAN. CNT 1

| PATENT NO.       | KIND | DATE     | APPLICATION NO. | DATE       |
|------------------|------|----------|-----------------|------------|
|                  |      |          |                 |            |
| PI US 5637687    | A    | 19970610 | US 1993-115184  | 19930831 < |
| PRAT HS 1993-115 | 5184 | 19930831 | <               |            |

Compns. and methods are disclosed for isolating nucleic acids from biol. tissues and cells (including tumor cells) and for tissue/cell solubilization for other mol. biol. uses, wherein the compns. comprise, in part, novel combinations of chaotropic agents and aromatic alcs. which act synergistically to effect better tissue/protein solubilization. The inventive compns. further include aprotic solvents for deactivation of RNases and denaturization of proteins, as well as detergents for enhancing cell lysis and nucleoprotein dissociation. The inventive methods also comprise the use of a centrifuge, a solid-support matrix, and a microporous membrane for final isolation of the precipitated nucleic acids, resulting in high yield and purity of the precipitated nucleic acid.

IT 126-92-1, Sodium 2-ethylhexyl sulfate

RL: NUU (Other use, unclassified); USES (Uses) (methods and compns. for nucleic acids isolation)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)

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\begin{array}{c} \text{CH}_2\text{--}\text{OSO}_3\text{H} \\ | \\ \text{Et--CH--}\text{Bu--n} \end{array}
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NAME)

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L133 ANSWER 10 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
     1997:293861 HCAPLUS
ΑN
DN
     126:265458
TΙ
     Fully diluted hard surface cleaners containing high concentrations of
     certain anions
IN
     Strandburg, Gary M.; Gardner, John M.; Haigh, Daniel H.; Wagers, Kevin J.;
     O'Driscoll, Erin D.
PΑ
     Dowbrands Inc., USA
SO
     PCT Int. Appl., 22 pp.
     CODEN: PIXXD2
DT
     Patent
LA
    English
FAN.CNT 2
     PATENT NO.
                               DATE
                                          APPLICATION NO.
                        KIND
                                                                 DATE
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                        ____
                              _____
                                          -----
                                                                 ______
PΙ
    WO 9709412
                        A1 19970313
                                          WO 1996-US14208
                                                                 19960905 <--
        W: AU, BR, CA, CN, CZ, FI, HU, IS, JP, MX, NO, NZ, PL, SG
        RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
     CA 2237150
                       A1
                                          CA 1996-2237150
                              19970313
                                                                 19960905 <--
    AU 9673587
                        Α
                               19970327
                                          AU 1996-73587
                                                                 19960905 <--
    AU 727789
                        В2
                               20001221
    EP 861316
                        A1
                               19980902
                                          EP 1996-935792
                                                                 19960905 <--
    EP 861316
                        В1
                               20020508
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, FI
    CN 1201483
                        Α
                               19981209
                                          CN 1996-198118
                                                                 19960905 <--
                                          CN 1996-198119
    CN 1201487
                        A
                               19981209
                                                                 19960905 <--
                       . B1
    US 6200941
                               20010313
                                          US 1996-708473
                                                                19960905 <--
                       Т
    AT 217343
                               20020515
                                          AT 1996-935792
                                                              19960905 <--
    ES 2173323
                        Т3
                                          ES 1996-935792
                               20021016
                                                                19960905 <--
PRAI US 1995-3321P
                       P
                               19950906
                                        <--
     WO 1996-US14208
                        W
                              19960905 <--
AΒ
     The title cleaners contain \geq 0.45 equiv/kg of a dissolved anion
    which reacts with Ca ion to form an insol. salt. The cleaners also
     contain a particular amine oxide, or a different surfactant in conjunction
    with a solvent, and a bleach effective on soap scum and mold and mildew.
    An alkaline cleaner contained decyldimethylamine oxide 1.5, KF 5.0, and water
     93.5 parts.
ΙT
    126-92-1, Sodium 2-ethylhexylsulfate
     RL: TEM (Technical or engineered material use); USES (Uses)
        (surfactant; fully diluted hard surface cleaners containing small amts. of
        certain surfactants and anion-releasing compound)
    126-92-1 HCAPLUS
RN
CN
     Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX
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CH2-OSO3H
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L133 ANSWER 11 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
   1997:240626 HCAPLUS
DN
    126:222603
ΤI
    Method for enhancing chemiluminescence
IN
    Kohne, David E.
PA
    Kohne, David E., USA
SO
    PCT Int. Appl., 92 pp.
    CODEN: PIXXD2
DT
    Patent
LA
    English
FAN.CNT 1
    PATENT NO.
                      KIND
                              DATE
                                         APPLICATION NO.
                                                               DATE
    _____
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                              _____
                                         ______
                                                                _____
                       A1 19970213 WO 1996-US12300
PΙ
    WO 9705209
                                                               19960726 <--
        W: AU, BR, CA, CN, FI, JP, KR, NO, NZ
        RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
    AU 9666003
                     A
                             19970226
                                        AU 1996-66003
                                                               19960726 <--
                       P
PRAI US 1995-1641P
                             19950728
                                        <--
    WO 1996-US12300 W 19960726
                                       <--
AB
    The invention relates to a method for obtaining increased enhancement of
    luminescence from art known luminescent systems by the incorporation into
    the art known luminescent system of one or more detergents and
    one or more enhancer. Such enhanced luminescence can occur in solution or on
    a solid surface. The method can be practiced using anionic, cationic,
    zwitterionic, and non-ionic surface active or detergent compds.
    The method has broad application in any area where a signal generation
    system is required. Such areas include medical, veterinary, agricultural,
    and industrial diagnostics and quality control. This includes any assay
    type designed to detect and/or quantitate the presence of any analyte,
    including industrial and pharmaceutical compds. as well as biol. compds.
    and organisms of all types such as proteins, carbohydrates, lipids,
    nucleic acids, bacteria and viruses. Examples of such tests include those
    utilizing nucleic acid probes, as well as immuno- and receptor-assays.
ΙT
    126-92-1, Sodium octyl sulfate
    RL: ARU (Analytical role, unclassified); ANST (Analytical study)
       (method for enhancing chemiluminescence)
RN
    126-92-1 HCAPLUS
CN
    Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX
    NAME)
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Na

Et-CH-Bu-n

CH2-OSO3H

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L133 ANSWER 12 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
 ΑN
      1997:54042 HCAPLUS
      126:76540
 DN
 ΤI
      Personal cleansing compositions containing water-soluble gel-forming
      nonionic surfactants
      Elliott, Russell Phillip; Phipps, Nicola Jacqueline
 IN
 PA
      Procter and Gamble Company, USA; Elliott, Russell Phillip; Phipps, Nicola
      Jacqueline
 SO
      PCT Int. Appl., 37 pp.
      CODEN: PIXXD2
 DT
      Patent
 LA
      English
 FAN.CNT 1
      PATENT NO.
                          KIND
                                 DATE
                                             APPLICATION NO.
                                                                    DATE
                          ----
                                             -----
                                 _____
      WO 9637592
 PΤ
                                 19961128
                                             WO 1996-US6576
                                                                    19960509 <--
                           A1
          W: BR, CA, CN, JP, MX, US
          RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
      CA 2221755
                           A1
                                 19961128
                                             CA 1996-2221755
                                                                    19960509 <--
      EP 828810
                           A1
                                 19980318
                                             EP 1996-914602
                                                                    19960509 <--
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI
      CN 1190988
                           Α
                                 19980819
                                             CN 1996-195627
                                                                    19960509 <--
      CN 1080558
                           В
                                 20020313
      BR 9609202
                          Α
                                 19990511
                                             BR 1996-9202
                                                                    19960509 <--
      JP 11505837
                          T
                                 19990525
                                             JP 1996-535703
                                                                    19960509 <--
      EG 20993
                         Α
                                 20000830
                                             EG 1996-451
                                                                    19960526 <--
      US 6004915
                         Α
                                 19991221
                                             US 1997-973054
                                                                   19971126 <--
      US 6277798
                          В1
                                 20010821
                                             US 1999-398661
                                                                    19990917 <--
 PRAI GB 1995-10833
                          Α
                                 19950527
                                           <--
      WO 1996-US6576
                          W
                                 19960509
                                           <--
      US 1997-973054
                          Α
                                 19971126
                                          <--
 OS
      MARPAT 126:76540
, AB
      A personal cleansing composition comprises: (a) 1-25 weight% of water-soluble
      gel-forming nonionic surfactants which are polyhydroxy fatty acid amides;
      (b) 0.1-3 weight% of C4-10 alkyl sulfate fluidizing agents; and (c)
      optionally, 1-30 weight% of a dispersed oil phase. The cleansing products
      demonstrate excellent low temperature fluidity characteristics, excellent
      mildness, in-use and after-use conditioning benefits, lathering and
      rinsability. A shower gel formulation contained C11-17 fatty acid amide
      with N-methylglucamine 8, sodium laureth sulfate 3,
      cocoamidopropyldimethylbetaine 2, mineral oil 10, sodium C8 alkyl sulfate
      2 weight%, sodium citrate, perfume, preservative, and water.
 ΙT
      126-92-1, Sodium octyl sulfate
      RL: TEM (Technical or engineered material use); USES (Uses)
         (personal cleansing compns. containing water-soluble gel-forming nonionic
         surfactants)
 RN
      126-92-1 HCAPLUS
 CN
      Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX
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NAME)

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CH2-OSO3H
|
Et-CH-Bu-n
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#### ● Na

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L133 ANSWER 13 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
ΑN
     1996:759113 HCAPLUS
DN
     126:20432
ΤI
     Glass cleaner compositions having linear alkyl sulfate surfactants
IN
     Masters, Ronald Anthony; Hensley, Charles Albert; Mitchell, Lori Boden;
     Maile, Michael Stephen; Policicchio, Nicola John; Severson, Todd Christian
PA
     The Procter and Gamble Company, USA
SO
     PCT Int. Appl., 24 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                         KIND
                                             APPLICATION NO.
                                DATE
                                                                     DATE
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PΤ
     WO 9634933
                          A1
                                19961107
                                             WO 1996-US5561
                                                                     19960423 <--
         W: AU, BR, CA, MX
         RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
     CA 2220131
                          Α1
                                19961107
                                             CA 1996-2220131
                                                                     19960423 <--
     CA 2220131
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                                20010327
     AU 9655642
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                                19961121
                                             AU 1996-55642
                                                                     19960423 <--
     EP 823937
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                                19980218
                                             EP 1996-913006
                                                                    19960423 <--
     EP 823937
                          В1
                                19991013
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI
     BR 9608216
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                                19990525
                                             BR 1996-8216
                                                                    19960423 <--
     AT 185591
                          Т
                                19991015
                                             AT 1996-913006
                                                                    19960423 <--
                          Т3
     ES 2136988
                                19991201
                                             ES 1996-913006
                                                                    19960423 <--
     GR 3032284
                          Т3
                                20000427
                                             GR 1999-403373
                                                                     19991229 <--
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19950505

19960423

Α

W

WO 1996-US5561 OS MARPAT 126:20432

PRAI US 1995-436063

AB

An aqueous, liquid hard surface detergent composition having excellent surface lubricity and filming/streaking characteristics comprises a linear alkyl sulfate [LAS] surfactants, and may contain a co-surfactant, alkali metal carbonates, and a glass hydrophilicity enhancer. The LAS mixture comprises less than about 1% of a C8-C18 linear alkyl sulfate surfactant wherein more than about 30 % is C14 chain length, preferably Na tetradecyl sulfate. The co-surfactant is selected from ampho-carboxylates, zwitterionics, anionic surfactants, and their mixts. The salt content is up to 0.5%, preferably 0.001 to 0.1% alkali metal carbonates or bicarbonates, Na2CO3, K2CO3, NaHCO3, KHCO3, their hydrates or mixts. The hydrophilicity enhancer is a polycarboxylate polymer. The glass cleaner composition contains 0.5-30% butoxypropanol, and the balance is a mixture of ethanol and water and is essentially free of unreacted fatty alc. and alkanolamine compds. The cleaner composition is used by spraying onto a glass surface and wiping to near dryness. Thus, a composition comprising butoxypropanol, ethanol, Versaflex 7000, Na octyl sulfate, Na dodecyl sulfate, Na tetradecyl sulfate, Na hexadecyl sulfate, and Na octadecyl sulfate provided low static friction height [smoothness] and improved surface lubricity while wiping to dryness.

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CH2-OSO3H | Et-CH-Bu-n

Na

L133 ANSWER 14 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:716108 HCAPLUS

DN 125:332370

TI **Detergent** compositions containing amylase and nonionic polysaccharide ethers

IN Baillely, Gerard Marcel; Hall, Robin Gibson; Guedira, Nour-Eddine

PA Procter & Gamble Company, USA

SO Brit. UK Pat. Appl., 39 pp.

CODEN: BAXXDU

DT Patent LA English

LA English

| FAN. | CNT 1 PATENT NO. | KIND DATE         | APPLICATION NO.         | DATE                 |
|------|------------------|-------------------|-------------------------|----------------------|
|      |                  | MIND DATE         | ATTUICATION NO.         | DATE                 |
| ΡI   | GB 2297978       |                   | GB 1995-2914            | 19950215 <           |
|      | CA 2211328       | A1 19960822       | CA 1996-2211328         | 19960206 <           |
|      | CA 2211328       | C 20010724        |                         |                      |
|      | WO 9625478       | A1 19960822       | WO 1996-US1646          | 19960206 <           |
|      | W: BR, CA, CN    | , CZ, HU, JP, MX, | US, VN                  |                      |
|      | RW: AT, BE, CH   | , DE, DK, ES, FR, | GB, GR, IE, IT, LU, MC, | NL, PT, SE           |
|      |                  |                   | EP 1996-905397          |                      |
|      | EP 809687        | B1 20040121       |                         |                      |
|      | R: AT, BE, CH    | , DE, DK, ES, FR, | GB, GR, IT, LI, LU, NL, | SE, PT, IE           |
|      | CN 1174571       | A 19980225        | CN 1996-191961          | 19960206 <- <b>-</b> |
|      | CN 1086733       | В 20020626        |                         |                      |
|      | BR 9607615       | A 19980609        | BR 1996-7615            | 19960206 <           |
|      | JP 11500163      | T 19990106        | JP 1996-525004          | 19960206 <           |
|      | AT 258220        |                   | AT 1996-905397          | 19960206 <           |
|      | ES 2215189       | T3 20041001       | ES 1996-905397          | 19960206 <           |
|      | US 5851235       | A 19981222        | US 1997-875012          | 19970716 <           |
| PRAI | GB 1995-2914     | A 19950215        | <                       | •                    |
|      | WO 1996-US1646   | W 19960206        | <                       |                      |

AB A detergent composition for removing stains from a fabric comprises ≥1% of a surfactant, a nonionic polysaccharide ether having a mol. weight >10000, and an amylase enzyme selected from bacterial amylase, fungal amylase or mixts. thereof. The amylase enzyme is in an amount such that the detergent composition has an activity of ≥0.001 KNU (Kilo Novo Units) per g or ≥0.01 FAU (Fungal Alpha Amylase Units) per g. A suitable polysaccharide ether is Me cellulose.

IT 34503-11-2D, Polyethylene glycol sodium sulfate, C12-15 alkyl
ethers

RL: TEM (Technical or engineered material use); USES (Uses) (surfactant; detergent compns. containing amylase and nonionic polysaccharide ethers)

RN 34503-11-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -hydroxy-, monosodium salt (9CI) (CA INDEX NAME)

$$HO = \begin{bmatrix} CH_2 - CH_2 - O \end{bmatrix}_n SO_3H$$

Na

L133 ANSWER 15 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:637427 HCAPLUS

DN 125:303839

TI Surfactant blend of a polyoxyalkylene-siloxane and an organic compound having a short chain hydrophobic moiety

IN Policello, George A.; Murphy, Dennis S.

PA Osi Specialties, Inc., USA

SO U.S., 12 pp., Cont. of U.S. Ser. No. 5,749, abandoned. CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

| PATENT NO. |                              | KIND DATE |                      | APPLICATION NO. | DATE       |  |  |
|------------|------------------------------|-----------|----------------------|-----------------|------------|--|--|
|            | US 5558806<br>US 1992-917846 | A<br>B2   | 19960924<br>19920723 | US 1995-403538  | 19950314 < |  |  |
|            | US 1993-5749                 | В1        | 19930119             | <               |            |  |  |

AB A surfactant blend comprises (a) a polyoxyalkylene-siloxane and (b) an organic compound having a hydrophobic moiety containing less than 11 carbon atoms

in the main chain or backbone which does not interfere with the spreading ability of component (a). The compns. are useful as adjuvants in pesticide sprays or crop oil concs. A composition contained Me3SiO(SiMeRO)SiMe3 [R = C3H6O(C2H4O)8CH3] and Solvactant DMH-7 (dimethylhexanol ethoxylate).

IT 126-92-1, Avirol SA 4106

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(Avirol SA 4106; surfactant blend of a polyoxyalkylene-siloxane and an organic compound having a short chain hydrophobic moiety)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)

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CH2-OSO3H
|
Et-CH-Bu-n
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(Uses)

RN CN surfactants)
25542-86-3 HCAPLUS

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L133 ANSWER 16 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
    1996:623051 HCAPLUS
DN
    125:256774
TΤ
    Skin cleansers containing combinations of anionic and nonionic surfactants
ΙN
    Sakurai, Naoe; Sumida, Hikaru; Komori, Takashi
PA
    Kao Corporation, Japan
SO
    Eur. Pat. Appl., 20 pp.
    CODEN: EPXXDW
DT
    Patent
LA
    English
FAN.CNT 1
    PATENT NO.
                        KIND
                               DATE
                                          APPLICATION NO.
                                                                 DATE
     ______
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                               -----
                                          _____
                                                                 -----
PT
    EP 728475
                        A2
                               19960828
                                          EP 1995-119222
                                                                 19951206 <--
    EP 728475
                        A3
                               19970319
        R: DE, FR, GB
    JP 08225441
                        Α
                               19960903
                                          JP 1995-58065
                                                                 19950221 <--
    JP 3562015
                        В2
                               20040908
    JP 09020618
                       · A
                               19970121
                                          JP 1995-196165
                                                                 19950707 <--
    US 5716626
                        Α
                               19980210
                                          US 1995-568977
                                                                 19951207 <--
    CN 1134816
                        Α
                               19961106
                                          CN 1995-121653
                                                                 19951209 <--
PRAI JP 1995-58065
                        Α
                               19950221
                                        <--
    JP 1995-196165
                        Α
                               19950707
                                        <--
OS
    MARPAT 125:256774
AΒ
    The skin cleanser of the present invention makes it possible to thoroughly
    wash off oily stains such as makeup articles (lipstick, eye-makeup,
    waterproof foundation, etc.) while giving a good feel in use. A
    detergent composition containing the following components (A) and (B) is
    packed in a foamer container provided with a porous membrane: (A) at least
    one anionic surfactant having a branched hydrocarbon group selected from
    phosphate surfactants, sulfate surfactants and sulfonate surfactants; and
     (B) at least one nonionic surfactant. A cleansing foam with a high
    detergency contained 2-hexyldecyl phosphate triethanolamine 5, arginine
     2-heptylundecyl phosphate 5, POE sorbitan monostearate 5, glycerol 10,
     1,3-butylene glycol 10, ethanol 5, and purified water 60 %.
ΙT
    25542-86-3, Sodium 2-hexyldecyl sulfate 78204-53-2
    128482-64-4 181355-78-2 182155-73-3
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
```

(skin cleansing foams containing combinations of anionic and nonionic

1-Decanol, 2-hexyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)

RN 78204-53-2 HCAPLUS

CN 9-Octadecanol, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)

Na

RN 128482-64-4 HCAPLUS CN Poly(oxy-1,2-ethanediy1),  $\alpha$ -sulfo- $\omega$ -[(2-hexyldecy1)oxy]-, sodium salt (9CI) (CA INDEX NAME)

$$CH_2-O$$
  $CH_2-CH_2-O$   $SO_3H$   $Me-(CH_2)_5-CH-(CH_2)_7-Me$ 

Na

RN 181355-78-2 HCAPLUS

CN Ethanol, 2,2',2''-nitrilotris-, compd. with  $\alpha$ -sulfo- $\omega$ -[(2-octyldodecyl)oxy]poly(oxy-1,2-ethanediyl) (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 181355-77-1

CMF (C2 H4 O)n C20 H42 O4 S

CCI PMS

$$CH_2-O$$
  $CH_2-CH_2-O$   $SO_3H$   $Me-(CH_2)_7-CH-(CH_2)_9-Me$ 

CM 2

CRN 102-71-6 CMF C6 H15 N O3

 $\begin{array}{c} \text{CH}_2\text{--}\text{CH}_2\text{--}\text{OH} \\ | \\ \text{HO--}\text{CH}_2\text{--}\text{CH}_2\text{--}\text{N--}\text{CH}_2\text{--}\text{CH}_2\text{--}\text{OH} \end{array}$ 

RN 182155-73-3 HCAPLUS

CN 1-Decanol, 2-hexyl-, hydrogen sulfate, compd. with 2,2',2''- nitrilotris[ethanol] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 182155-72-2 CMF C16 H34 O4 S

 $^{\rm CH_2-OSO_3H}_{\rm Me^-\ (CH_2)\ 5^-CH^-\ (CH_2)\ 7^-Me}$ 

CM 2

CRN 102-71-6 CMF C6 H15 N O3

 $\begin{array}{c} \text{CH}_2-\text{CH}_2-\text{OH} \\ | \\ \text{HO-CH}_2-\text{CH}_2-\text{N-CH}_2-\text{CH}_2-\text{OH} \end{array}$ 

L133 ANSWER 17 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:607420 HCAPLUS

DN 125:236084

TI Conductive polymer composition and its preparation

IN Kudoh, Yasuo; Kojima, Toshikuni; Akami, Kenji

PA Matsushita Electric Industrial Co., Ltd., Japan

SO Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

| LAN. | CNT I |        |     |    |      |          | •               |            |
|------|-------|--------|-----|----|------|----------|-----------------|------------|
|      | PATEN | T NO.  |     |    | KIND | DATE     | APPLICATION NO. | DATE       |
|      |       |        |     |    |      |          |                 |            |
| PΙ   | EP 72 | 7788   |     |    | A2   | 19960821 | EP 1996-102349  | 19960216 < |
|      | EP 72 | 7788   |     |    | A3   | 19970514 |                 |            |
|      | EP 72 | 7788   |     |    | B1   | 20010620 |                 | •          |
|      | R     | : DE,  | FR, | GB |      |          | •               |            |
|      | JP 09 | 268258 | }   |    | A    | 19971014 | JP 1996-26369   | 19960214 < |
|      | JP 31 | 27819  |     |    | B2   | 20010129 |                 |            |
|      | US 58 | 95606  |     |    | A    | 19990420 | US 1996-602645  | 19960216 < |
|      | EP 10 | 31998  |     |    | A2   | 20000830 | EP 2000-107240  | 19960216 < |
|      | EP 10 | 31998  |     |    | A3   | 20011128 |                 |            |
|      | R     | : DE,  | FR, | GB |      | •        |                 | •          |
|      |       |        |     |    |      |          |                 |            |

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PRAI JP 1995-29431
                         Α
                                19950217
                                         <--
                                         <--
     JP 1995-159001
                         Α
                                19950626
     JP 1996-14939
                         Α
                                19960131 <--
     EP 1996-102349
                         А3
                                19960216 <--
AB
    A conductive polymer composition comprises a conjugated double bond-bearing
     polymer and a composite dopant consisting essentially of an organic anion
     derived from an anionic surfactant and an inorg. anion derived from a
     transition metal salt. A process for preparing the conductive polymer
```

composition is also described, where the polymerization proceeds rapidly with the coexistence

of the organic and inorg. anions. The addition of fine particles of an oxide is

effective in film formation on substrates.

IT 126-92-1, Sodium 2-ethylhexylsulfate

RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(preparation of conductive polymer compns. containing) 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)

RN

### Na

L133 ANSWER 18 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN 1996:590859 HCAPLUS AN DN 125:279280 TΤ High foaming nonionic surfactant based liquid detergent IN Gomes, Gilbert S.; Erilli, Rita; Kern, Ronald Colgate-Palmolive Co., USA PA -U.S., 7 pp., Cont.-in-part of U.S. Ser. No. 91, 513, abandoned. CODEN: USXXAM DTPatent LA English FAN.CNT 13

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE       |  |  |
|------|----------------|------|----------|-----------------|------------|--|--|
|      |                |      |          |                 |            |  |  |
| PΙ   | US 5556577     | A    | 19960917 | US 1995-391281  | 19950221 < |  |  |
|      | ZA 9404974     | Α    | 19960708 | ZA 1994-4974    | 19940708 < |  |  |
| PRAI | US 1992-893138 | B2   | 19920603 | <               |            |  |  |
|      | US 1993-91513  | B2   | 19930709 | <               |            |  |  |
|      |                |      |          |                 |            |  |  |

AB A high foaming, light duty liquid detergent with desirable cleansing properties and mildness to the human skin comprises a water soluble nonionic surfactant, a ethoxylated alkyl ether sulfate anionic surfactant, a zwitterionic betaine surfactant and the balance being water. The detergent is free of amine oxides, clay fatty acids or a metal salt of a fatty acid, sulfonate surfactants, and polymeric or alkyl sulfate surfactants and the concentration of the nonionic surfactant is always greater than the concentration of the ethoxylated alkyl ether sulfate surfactant.

Neodol 1-9 was used as nonionic surfactant in a formulation in 15.5%

concentration

IT 34503-11-2D, Polyethylene glycol sodium sulfate, alkyl ethers RL: TEM (Technical or engineered material use); USES (Uses) (high foaming nonionic surfactant-based liquid detergent)

RN 34503-11-2 HCAPLUS

CN Poly(oxy-1,2-ethanediy1),  $\alpha$ -sulfo- $\omega$ -hydroxy-, monosodium salt (9CI) (CA INDEX NAME)

Na

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L133 ANSWER 19 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
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AN 1996:485864 HCAPLUS

DN 125:118073 ·

TI Granular detergent compositions containing deflocculating polymers

IN Scherr, Elliot M.; Repinec, Stephen T., Jr.

PA Colgate-Palmolive Company, USA

SO PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

| L WIA . | > IA T | ۷.   |      |      |     |     |     |      |      |     |       |       |       |     |     |     |       |       |               |
|---------|--------|------|------|------|-----|-----|-----|------|------|-----|-------|-------|-------|-----|-----|-----|-------|-------|---------------|
|         | PAT    | CENT | NO.  |      |     | KIN | D   | DATE |      | Ī   | APPL: | ICAT: | ION 1 | .OV |     | D   | ATE   |       |               |
|         |        |      |      |      |     |     | -   |      |      |     |       |       |       |     |     |     |       |       |               |
| ΡI      | WO     | 9617 | 919  |      |     | A1  |     | 1996 | 0613 | Ţ   | WO 1  | 995-1 | US15. | 591 |     | 1   | 9951  | 130 < | . – –         |
|         |        | W:   | AM,  | AT,  | AU, | BB, | BG, | BR,  | BY,  | CA, | CH,   | CN,   | CZ,   | DE, | DK, | EE, | ES,   | FI,   |               |
|         |        |      | GB,  | GE,  | HU, | IS, | JP, | KE,  | KG,  | ΚP, | KR,   | ΚZ,   | LK,   | LR, | LT, | LU, | LV,   | MD,   |               |
|         |        |      | MG,  | MN,  | MW, | MX, | NO, | NΖ,  | PL,  | PT, | RO,   | RU,   | SD,   | SE, | SG, | SI, | SK,   | ТJ,   |               |
|         |        |      | TM,  | TT   |     |     |     |      |      |     |       |       |       |     |     |     |       |       |               |
|         |        | RW:  | ΚE,  | LS,  | MW, | SD, | SZ, | UG,  | AT,  | BE, | CH,   | DE,   | DK,   | ES, | FR, | GB, | GR,   | ΙE,   |               |
|         |        |      | IT,  | LU,  | MC, | NL, | PT, | SE,  | BF,  | ВJ, | CF,   | CG,   | CI,   | CM, | GA, | GN, | ML,   | MR,   |               |
|         |        |      | ΝE,  | SN,  | TD, | ΤG  |     |      |      |     |       |       |       |     |     |     |       |       |               |
|         | US     | 5723 | 427  |      |     | A   |     | 1998 | 0303 | Į   | JS 1  | 995-  | 5297  | 02  |     | 1:  | 9950: | 918 < | (             |
|         | ΑU     | 9644 | 128  |      |     | A   |     | 1996 | 0626 | Ž   | AU 1  | 996-  | 4412  | В   |     | 1:  | 9951  | 130 < | ( <del></del> |
|         | EΡ     | 7963 | 16   |      |     | A1  |     | 1997 | 0924 | ]   | EP 1  | 995-  | 9429. | 53  |     | 1:  | 9951  | 130 < | (             |
|         |        | R:   | ΑT,  | BE,  | CH, | DE, | DK, | ES,  | FR,  | GB, | GR,   | IE,   | IT,   | LI, | NL, | PT, | SE    |       |               |
| PRAI    | US     | 1994 | -350 | 19.7 |     | Α   |     | 1994 | 1205 | <   | -     |       |       |     |     |     |       |       |               |
|         |        | 1995 |      |      |     |     |     | 1995 | 0918 | <   | -     |       |       |     |     |     |       |       |               |
|         | WO     | 1995 | -US1 | 5591 |     | W   |     | 1995 | 1130 | <   | -     |       |       |     |     |     |       |       |               |

AB The present invention provides for concentrated, granular detergent compns. comprising a mixture of: a) 15-50% of a surfactant; b) ≥1 detergent builder; c) 0.01-7.5% of a deflocculating polymer composition containing polymer chains of the structure P-QR, wherein P represents a polymer chain segment of a hydrophilic polymer, and QR represents a hydrophobic end-cap group wherein R is an organic hydrophobic radical containing

from about 4 to 28 carbon atoms, and Q is selected from the group consisting of O, CO2, S, SO< SO2, NR', PO4R, PO3R', Si OR'R'', Si R'R'', CR'OH, CR'R'' and CR' OR'' wherein R' and R'' are each hydrogen, and alkyl group containing from 1 to 4 carbon atoms or an aryl group; and d) water. The addition of the deflocculating polymer to a crutcher slurry prior to drying

the slurry retards the propensity of the lamellar surfactant droplets dispersed in the slurry to flocculate, particularly where the droplets occupy a higher volume ratio as the result of high concns. of surfactant present in the **detergent**. The resultant slurry exhibits a significantly reduced viscosity which renders it more readily pumpable in a spray drying process. Acrylic acid-dodecyl mercaptan-maleic acid telomer was used as a typical deflocculating agent.

IT 34503-11-2D, Polyoxyethylene sulfate sodium salt, alkyl ethers RL: TEM (Technical or engineered material use); USES (Uses) (granular detergent compns. containing deflocculating polymers)

RN 34503-11-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -hydroxy-, monosodium salt (9CI) (CA INDEX NAME)

● Na

L133 ANSWER 20 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:456221 HCAPLUS

DN 125:171576

TI Glass cleaner compositions with good filming and streaking characteristics to provide long-lasting hydrophilicity

IN Masters, Ronald A.; Maile, Michael S.

PA Procter and Gamble Co., USA

SO U.S., 13 pp., Cont.-in-part of U.S. Ser. No. 284,778, abandoned. CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

| PAN. CNT | FENT NO.                               | KIND DATE                      | APPLICATION NO.   | DATE                     |
|----------|--|--------------------------------|---|--------------------------|
| CA       | 2196611                                |                                |   |                          |
|          | 9604358<br>W: AU, BR, CA               | A1 19960<br>, FI, JP, MX,      | 0215 WO 1995-US9273<br>NO   |                          |
|          |  | A 19960                        | FR, GB, GR, IE, IT, LU, MC,<br>304 AU 1995-31038<br>3429                |                          |
| EP       | 804536<br>804536                       | A1 19971<br>B1 20000           | .105 EP 1995-926772<br>)112   |                          |
|          | 10503797                               | T 19980                        | FR, GB, GR, IT, LI, LU, NL,<br>0407 JP 1995-506574<br>0602 BR 1995-8507 | 19950721 <<br>19950721 < |
|          | 9508507<br>188731<br>2141951<br>804536 | T 20000<br>T3 20000<br>T 20000 | 0115 AT 1995-926772<br>0401 ES 1995-926772<br>0531 PT 1995-926772       | 19950721 <               |
| FI<br>NO | 9700431<br>9700432                     | A 19970<br>A 19970             | 0131 FI 1997-431<br>0401 NO 1997-432                                    | 19970131 <<br>19970131 < |
| PRAI US  | 3032912<br>1994-284778<br>1995-378205  | B2 19940                       | 0731 GR 2000-400609<br>0802 <<br>0125 <                                 | 20000308 <               |

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WO 1995-US9273
                          W
                                19950721
                                         <--
    MARPAT 125:171576
OS
AB
    An aqueous liquid detergent composition for cleaning of hard surfaces
(especially
     glass surfaces) comprises 0.001-2 weight% of surfactants selected from: (1)
     an amphiphilic carboxylate, of general formula
     RN(R1)(CH2)nN(R2)(CH2)pC(:O)OM(R = C6-10-fatty acyl; R1 = H, C1-2-alkyl;
     R2 = C1-3-alkyl or substituted C1-3-alkyl; n = 1-3; p = 1-2; M is an
     alkali metal cation, NH4+, or alkanolammonium), (2) a zwitterion
     surfactant, of general formula R3[C(:0)NR4(CR52)n]mN(R6)2+-(CR52)pY-(R3 =
    C10-18-alkyl or alkylene; R4,R6 = H, Me, Et, Pr, hydroxyethyl, or
    hydroxypropyl; R5 = H or OH; m = 0-1; n = 1-4; p = 1-4; Y is carboxylate
     or sulfonate), and (3) an anionic surfactant, of general formula
    R9-(R10)o-SO3-.M+ (R9 = C6-20-alkyl; R10 = C6-20-alkylene, C6H4, or O; M
     is an alkali metal cation, NH4+, or alkanolammonium). In addition, the
     compns. also contain: (1) 0.5-15 weight% of a hydrophobic solvent with
     hydrogen bonding parameter of 2-7, (2) an alkaline material to provide a pH of
     9-12; (3) 0.01-0.3 weight% of a polymer to make the hard (glass) surface more
     hydrophilic (especially a polycarboxylate with mol. weight 104 to 3 + 106, or
     a sulfonated polystyrene of mol. weight 104-106), and (4) water, optionally
     containing a non-aqueous polar solvent (e.g., MeOH, EtOH, iso-PrOH, ethylene
     glycol, glycol ethers, or polypropylene glycol).
ΙT
     126-92-1, Sodium octyl sulfate
     RL: TEM (Technical or engineered material use); USES (Uses)
        (glass cleaner compns. with good filming and streaking characteristics
        to provide long-lasting hydrophilicity)
RN
     126-92-1 HCAPLUS
     Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX
CN
    NAME)
   CH2-OSO3H
Et-CH-Bu-n
```

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L133 ANSWER 21 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
    1996:150266 HCAPLUS
AN
DN
    124:235616
ΤI
    Aqueous cleaning compositions for hard surfaces
ΙN
    Gordon, Neil James
PA
    Procter and Gamble Co., USA
SO
    PCT Int. Appl., 15 pp.
    CODEN: PIXXD2
DT
    Patent
LA
    English
FAN.CNT 1
    PATENT NO.
                       KIND
                              DATE
                                                                DATE
                                          APPLICATION NO.
    -----
                              _____
                       ____
                                          -----
    WO 9533024
                             19951207
PΙ
                        A1
                                          WO 1995-US5839
                                                                19950510 <--
        W: AU, BR, CA, FI, JP, MX, NO, US
        RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
    EG 21545
                        Α
                              20011231
                                          EG 1995-98
                                                               19950201 <--
    CA 2191135
                        A1
                              19951207
                                          CA 1995-2191135
                                                                19950510 <--
    CA 2191135
                        С
                              20000118
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AU 9525463
                               19951221
                         Α
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                                                                  19950510 <--
    AU 703727
                         В2
                               19990401
    EP 763083
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                               19970319
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                                                                  19950510 <--
    EP 763083
                         В1
                               20010718
        R:. AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE
     BR 9507810
                     Α
                               19970916
                                           BR 1995-7810 19950510 <--
     JP 10501275
                         т
                               19980203
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     ES 2158112
                         Т3
                               20010901
                                           ES 1995-919780
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    US 5910477
                         Α
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                                           US 1997-750190
                                                                  19970224 <--
    GR 3036240
                        Т3
                                           GR 2001-400943
                               20011031
                                                                  20010719 <--
                        A
PRAI EP 1994-870090
                               19940531
                                         <--
     EP 1995-919780
                         Α
                               19950510
                                         <--
    WO 1995-US5839
                         W
                               19950510
                                         <--
OS
    MARPAT 124:235616
AΒ
    These compns. are are viscous but at the same time easy to rinse. Such
    compns. are formulated by using an amine oxide, or amine, or mixts.
     thereof, in combination with a secondary, or primary monobranched alkyl
     sulfate or sulfonate in a mildly acidic system further comprising a
    hydrotrope and an organic acid.
ΙT
     94200-74-5, Sodium 2-butyloctyl sulfate
     RL: TEM (Technical or engineered material use); USES (Uses)
        (Isofol 12S; viscous aqueous cleaning compns. with good rinsability for
       hard surfaces)
RN
     94200-74-5 HCAPLUS
CN
     1-Octanol, 2-butyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)
     CH2-OSO3H
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● Na

 $n-Bu-CH-(CH_2)_5-Me$ 

```
AN
    1995:946786 HCAPLUS
DN
    123:345408
TΤ
    Solvent soaps and methods employing them
ΙN
    Van Slyke, Donald C.
PA
    Union Oil Co., USA
SO
    PCT Int. Appl., 82 pp.
    CODEN: PIXXD2
DT
    Patent
LA
    English
FAN.CNT 2
    PATENT NO.
                              DATE APPLICATION NO.
                       KIND
                                                                DATE
    -----
                       ____
                              _____
                                         ______
                                                                _____
                                         WO 1994-US8729
                        A1
PΙ
    WO 9517244
                             19950629
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        W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB,
            GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW,
            NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UZ, VN
        RW: KE, MW, SD, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC,
            NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG
    US 5634984
                        Α.
                              19970603
                                          US 1994-210144
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                                          AU 1994-77143
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                              19971211
    AU 684309
                        В2
    EP 735919
                        A1
                              19961009
                                          EP 1994-927908
                                                                19940802 <--
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L133 ANSWER 22 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

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EP 735919
                                19980121
                          В1
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
    BR 9408417
                          Α
                                19970805
                                            BR 1994-8417
                                                                    19940802 <--
    ES 2114226
                          Т3
                                19980516
                                            ES 1994-927908
                                                                    19940802 <--
PRAI US 1993-172429
                          Α
                                19931222
                                          <--
    US 1994-210144
                          Α
                                19940317
                                          <--
                          W
    WO 1994-US8729
                                19940802
                                          <--
AΒ
    Compns. comprising (a) a surfactant and (b) a diluent oil are employed in
    oil-based drilling fluids and processes for cleaning oil-contaminated
    substrates (e.g., oil-contaminated animals, drill cuttings) as well as in
    processes for cementing well casings, enhanced oil recovery, and lifting
    oil from wellbores.
TΤ
    126-92-1, Sodium 2-ethylhexylsulfate
    RL: NUU (Other use, unclassified); TEM (Technical or engineered material
    use); USES (Uses)
        (surfactant; solvent soaps and methods for cleaning oil-coated
```

substrates and drill cuttings)

RN126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)

● Na

L133 ANSWER 23 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN 1995:726266 HCAPLUS ΑN

DN 123:122733

TΙ Shampoo conditioners containing surfactants and film-forming polymers and quaternary ammonium derivatives and siloxanes

ΙN Patel, Amrit; Robbins, R. Clarence

PΑ Colgate-Palmolive Co., USA

SO Fr. Demande, 36 pp.

CODEN: FRXXBL

DT Patent LA French

| FAN.C      | CNT 11         |      |          |                  |            |
|------------|----------------|------|----------|------------------|------------|
| PATENT NO. |                | KIND | DATE     | APPLICATION NO.  | DATE       |
|            |                |      |          |                  |            |
| ΡI         | FR 2712490     | A1   | 19950524 | FR 1994-13855    | 19941118 < |
|            | FR 2712490     | В1   | 20000204 |                  |            |
|            | ZA 9408478     | Α    | 19960429 | ZA 1994-8478     | 19941027 < |
|            | AU 9477575     | Α    | 19950525 | AU 1994-77575    | 19941031 < |
|            | AU 674255      | В2   | 19961212 |                  |            |
|            | BR 9404485     | Α    | 19950711 | BR 1994-4485     | 19941117 < |
|            | TW 388714      | В    | 20000501 | TW 1995-84104960 | 19950519 < |
|            | US 5726137     | Α    | 19980310 | US 1996-714928   | 19960927 < |
| PRAI       | US 1993-155251 | A    | 19931119 | <                |            |
|            | US 1989-369361 | B2   | 19890621 | < <sup></sup>    |            |
|            | US 1989-369389 | В2   | 19890621 | <                |            |
|            | US 1989-432644 | A2   | 19891107 | <- <del>-</del>  |            |
| -          | US 1989-432952 | · B2 | 19891107 | < '              | •          |
|            | US 1990-507335 | A2   | 19900409 | <                |            |
|            |                |      |          |                  |            |

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US 1992-984786 A2 19921203 <--
US 1995-440572 B1 19950515 <--
```

The title shampoo conditioners are claimed. A shampoo conditioner contained ammonium lauryl sulfate 16.000, sodium deceth-3-sulfate 15.000, sodium cumene sulfonate 7.500, Na4EDTA 0.100, Na2HPO4 0.200, copra-amidopropylbetaine 30.00, Polyquaternium-10 0.500, polyquaternium-7 2.500, isosteareth-2 2.000, C20-40 aliphatic alcs. 4.000, distearyldimethylammonium chloride 1.000, colors 0.250, perfumes 1.200, preservatives 1.000, and water q.s. 18.750%.

IT 34503-11-2

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(shampoo conditioners containing surfactants and film-forming polymers and quaternary ammonium derivs. and siloxanes)

RN 34503-11-2 HCAPLUS

CN Poly(oxy-1,2-ethanediy1),  $\alpha$ -sulfo- $\omega$ -hydroxy-, monosodium salt (9CI) (CA INDEX NAME)

Na .

```
L133 ANSWER 24 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
    1995:312265 HCAPLUS
AN
DΝ
    122:84320
TΙ
    Use of short-chain sulfate and sulfonate surfactants in detergents
IN
    Cilley, William Ajalon; Brown, Donald Ray
PA
    Procter and Gamble Co., USA
SO
    PCT Int. Appl., 23 pp.
    CODEN: PIXXD2
DT
    Patent
    English
LA
FAN.CNT 1
    PATENT NO.
                              DATE
                                          APPLICATION NO.
                        KIND
                                                                DATE
    -----
                              -----
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                                          ______
                                                                _____
PΙ
    WO 9410272
                        A1 19940511
                                          WO 1993-US10447
                                                                19931029 <--
        W: BR, CA, CZ, HU, JP, PL, RU, SK
        RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
    CA 2148469
                        A1 19940511
                                          CA 1993-2148469
                                                                19931029 <--
    CA 2148469
                        С
                              20000118
    EP 667892
                        A1
                              19950823
                                          EP 1993-925135
                                                                19931029 <--
    EP 667892
                        В1
                              19990707
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE
    JP 08503013
                       T
                                                                19931029 <--
                              19960402
                                          JP 1994-511361
    EP 916719
                        A2 '
                              19990519
                                          EP 1998-204327
                                                                19931029 <--
                        A3
    EP 916719
                              19990714
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE
    BR 9307361
                   . A
                              19990601
                                          BR 1993-7361 19931029 <--
    ES 2133421
                        Т3
                              19990916
                                          ES 1993-925135
                                                                19931029 <--
                        В1
    US 6180583
                              20010130
                                          US 1996-720584
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A
PRAI US 1992-970665
                              19921103
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    US 1993-83412
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    EP 1993-925135
                       AЗ
                              19931029
                                        <--
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WO 1993-US10447
                                19931029
                          W
                                         <---
     US 1995-396370
                          В1
                                19950228 <--
                          В1
     US 1995-566371
                                19951201 <--
OS
    MARPAT 122:84320
     The title surfactants, e.g., Na octyl sulfate (I) or Na
AB
     C8-alkanesulfonate, provide a solventlike cleaning function, especially in
     cleaners for bathrooms and kitchens. A cleaning composition contained NaOCl
     2.0, lauryldimethylamine oxide 1.0, I 4.0, perfume 0.2, NaOH 0.75, and H2O
     92.05%.
IT
     126-92-1, Sodium octyl sulfate
     RL: TEM (Technical or engineered material use); USES (Uses)
        (in cleaners for bathroom and kitchen)
RN
     126-92-1 HCAPLUS
CN
     Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX
     NAME)
```

CH2-OSO3H | Et-CH-Bu-n

● Na

```
L133 ANSWER 25 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
AN 1994:247836 HCAPLUS
     120:247836
DN
     Preparation of surface-active alkyl ether sulfate with low odor
TI
     Behler, Ansgar; Ploog, Uwe; Koehler, Michael; Hensen, Hermann; Seipel,
     Werner; Demmering, Guenther; Komp, Horst Dieter
PΑ
     Henkel K.-G.a.A., Germany
SO
    Ger. Offen., 4 pp.
     CODEN: GWXXBX
DΨ
     Patent
LA
     German
FAN.CNT 1
     PATENT NO.
                        KIND
                               DATE
                                           APPLICATION NO.
                                                                  DATE
     _____
                                           -----
                        ____
                               ______
                                                                  _____
PΙ
    DE 4218075
                         Α1
                               19931202
                                         DE 1992-4218075
                                                                  19920601 <--
     WO 9324453
                               19931209
                                           WO 1993-EP1300
                         Α1
                                                                  19930524 <--
        W: BR, CA, JP, US
        RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
     EP 643691
                         A1
                            19950322
                                           EP 1993-912774
                                                                  19930524 <--
                               19970827
     EP 643691
                         В1
        R: AT, BE, DE, ES, FR, GB, IT, LU, NL
     JP 07507064
                         Т
                               19950803
                                           JP 1993-500176
                                                                  19930524 <--
                             19970915
     AT 157353
                         Т
                                           AT 1993-912774
                                                                  19930524 <--
     ES 2105272
                         Т3
                               19971016
                                           ES 1993-912774
                                                                  19930524 <--
     US 5565598
                         Α
                               19961015
                                           US 1994-347332
                                                                  19941130 <--
PRAI DE 1992-4218075
                         Α
                               19920601
                                         <--
     WO 1993-EP1300
                         W
                               19930524
                                         <--
OS
    MARPAT 120:247836
AΒ
     A fatty alc. mixture (e.g., coco fatty alc.) containing no compds. b.
     <235^{\circ} is ethoxylated and sulfated to give a surfactant having no
     odor.
IT
     34503-11-2DP, fatty alkyl ethers
```

RL: IMF (Industrial manufacture); PREP (Preparation)

```
(preparation of surface-active, with low odor, purified alcs. for) RN 34503-11-2 HCAPLUS CN Poly(oxy-1,2-ethanediyl), \alpha-sulfo-\omega-hydroxy-, monosodium salt (9CI) (CA INDEX NAME)
```

$$HO \longrightarrow CH_2 - CH_2 - O \longrightarrow n$$
  $SO_3H$ 

```
L133 ANSWER 26 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
AN
    1994:167320 HCAPLUS
DN
    120:167320
ΤI
    Blends of anionic and nonionic surfactants for detergent
    compositions, and their manufacture
ΙN
    Bator, Patricia E.; Salka, Barry A.
PΑ
    Henkel Corp., USA
    PCT Int. Appl., 16 pp.
    CODEN: PIXXD2
DT
    Patent
LA
    English
FAN.CNT 1
    PATENT NO.
                        KIND
                               DATE
                                          APPLICATION NO.
                                                                DATE
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                                          -----
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                                                                 _____
PΙ
    WO 9315172
                        A1
                              19930805
                                          WO 1993-US682
                                                                 19930201 <--
        W: AU, BR, CA, JP
        RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
                        Α
    AU 9335929
                                       AU 1993-35929
                              19930901
                                                                19930201 <--
    US 5403516
                        Α
                              19950404
                                          US 1993-112866
                                                                19930826 <--
PRAI US 1992-830808
                       Α
                              19920204
                                       <--
    WO 1993-US682
                        Α
                              19930201 <--
    Blends of 50-90% short-chain anionic surfactant (e.g., Na 2-ethylhexyl
AB
    sulfate or Na octyl sulfate) and 10-50% nonionic surfactant ethoxylated
    with 2-7 mol ethylene oxide (e.g., ethoxylated C12, C13, or C14 alkanol)
    show good solubility and detergency in detergent compns. such as
    builder-containing compns. for laundering. The blends are especially useful in
    clear liquid detergent compns.
IT
    126-92-1, Sodium 2-ethylhexyl sulfate
    RL: USES (Uses)
       (surfactant mixts. containing ethoxylated alcs. and, for detergents
RN
    126-92-1 HCAPLUS
CN
    Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX
   CH2-OSO3H
Et-CH-Bu-n
```

Na

```
L133 ANSWER 27 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
AN
    1992:257899 HCAPLUS
DN
     116:257899
ΤI
     Improved aqueous degreaser compositions containing a sparingly soluble
     solvent
IN
     Vaneenam, Donald N.
PA
     Buckeye International, Inc., USA
SO
     PCT Int. Appl., 43 pp.
     CODEN: PIXXD2
DТ
     Patent
LA
    English
FAN.CNT 1
     PATENT NO.
                        KIND
                               DATE
                                           APPLICATION NO.
                                                                  DATE
     _____
                        ____
                               -----
                                           ______
                                                                  _____
PΙ
     WO 9115565 -
                         Α1
                               19911017
                                           WO 1991-US2341
                                                                  19910404 <--
        W: AU, CA, JP
        RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE
     US 5080822 ·
                               19920114
                        Α
                                           US 1990-507197
                                                                  19900410 <--
    CA 2080352
                         A1
                               19911011
                                           CA 1991-2080352
                                                                  19910404 <--
    CA 2080352
                         С
                               19980505
    AU 9176949
                         Α
                                           AU 1991-76949
                               19911030
                                                                  19910404 <--
    EP 525032
                        A1
                               19930203
                                           EP 1991-907867
                                                                  19910404 <--
    EP 525032
                        В1
                               20000119
        R: BE, DE, FR, GB, NL
     JP 05507300
                         Τ
                               19931021
                                           JP 1991-507763
                                                                  19910404 <--
     JP 2528053
                         В2
                               19960828
PRAI US 1990-507197
                        Α
                               19900410 <--
     WO 1991-US2341
                        Α
                               19910404 <--
AB
     The title compns. contain ≥1 organic solvent which has water solubility
     0.2-6%, is not a hydrocarbon or halocarbon, contains ≥1 functional
     group containing O, N, S, and/or P, is a solvent for hydrophobic soils, and is
     present in a concentration exceeding its water solubility, water, and a
solubilizing
    coupler which has aqueous surface tension >45 dynes/cm at 0.01-1.0%
concentration and
     is present in a concentration of ≤25% of that required to completely
    solubilize the organic solvent. The compns. remove ink or crayon markings
     from alkyd-enameled surfaces, greasy soils from glass, etc. Thus, a
    composition contained PhOCH2CH2OH 4.0, Na cumenesulfonate (45%) 5.5, and H2O
     90.5%.
IT
     126-92-1
    RL: USES (Uses)
        (solubilizers, for organic solvents in aqueous cleaners)
RN
     126-92-1 HCAPLUS
CN
     Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX
    NAME)
   CH2-OSO3H
Et-CH-Bu-n
```

● Na

```
L133 ANSWER 28 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
AN 1992:131122 HCAPLUS
DN
     116:131122
ΤI
     Low-foaming silicone-free aqueous textile auxiliaries, their preparation
     and their use
IN
     Guth, Christian; Stehlin, Albert
PΑ
     Ciba-Geigy A.-G., Switz.
SO
     Eur. Pat. Appl., 9 pp.
     CODEN: EPXXDW
DT
     Patent
LA
     German
FAN.CNT 1
     PATENT NO.
                       KIND DATE APPLICATION NO.
                                                                  DATE
     -----
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                                           ______
    EP 462059
                        A2
PΤ
                                19911218 EP 1991-810421
                                                                  19910604 <--
    EP 462059
                         A3
                                19920311
    EP 462059
                         В1
                               19970702
        R: CH, DE, ES, FR, GB, IT, LI
     ES 2106068 T3 19971101
                                            ES 1991-810421
                                                                   19910604 <--
    KR 221114
                         В1
                                19990915
                                            KR 1991-9488
                                                                   19910610 <--
                      A 19930223
B2 19990317
     JP 05044161
                               19930223
                                           JP 1991-138073
                                                                  19910611 <--
     JP 2872447
                     A 19951010
A 19900611
    US 5456847
                                           US 1993-171887
                                                                  19931222 <--
PRAI CH 1990-1945
CH 1991-709
    CH 1990-1945 A 19900611 <--

CH 1991-709 A 19910308 <--

US 1991-712848 B1 19910610 <--

US 1993-8246 B1 19930121 <--
                                         <--
OS
    MARPAT 116:131122
AB
    Title auxiliaries comprise a reaction product of a nonionic surfactant
    RO(ZO)pR1 (I) (R = C\geq8 residue, R1 = H, C1-8 alkyl, C\geq5
    cycloalkyl, alkylphenyl, styryl, Z = C2-4 alkylene; p = 2-60) with an
    acid, water-solubilizing group-containing compound, and I and optionally a
    hydrotropic compound Thus, a composition containing I (R = C9/11 alkyl, R1 =
Bu, Z =
    CH2CH2, p = .apprx.10) 20, K salt of a phosphate ester 5, reaction product
    of C9-11 fatty alc. ethoxylated with 9 mol ethylene oxide with acrylic
    acid 50, and water 25 parts was used in a H2O2-bleaching bath for a cotton
    knit to give a nonfoaming bath with good bleaching and cotton with good
    absorbency.
IT ·
    126-92-1, Sodium 2-ethylhexyl sulfate
    RL: USES (Uses)
        (textile auxiliary composition containing, nonfoaming, silicone-free)
RN
    126-92-1 HCAPLUS
CN
    Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX
    NAME)
   CH2-OSO3H
```

● Na

Et-CH-Bu-n

L133 ANSWER 29 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN AN 1992:108844 HCAPLUS DN 116:108844

```
TI Preparation of co-sulfated ethoxylated alcohols and unsaturated fatty alcohols as surfactants
```

IN Matthews, Randall Stryker; Ward, James Frank

PA Procter and Gamble Co., USA

SO PCT Int. Appl., 36 pp. CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

|      | PAT | TENT NO.                 | KIND       | DATE      | APPLICATION NO.        | DATE       |
|------|-----|--------------------------|------------|-----------|------------------------|------------|
| ΡI   | WO  | 9113057                  | A1         | 19910905  | WO 1991-US1111         | 19910225 < |
|      |     | W: CA, JP<br>RW: AT, BE, | CH, DE, DK | , ES, FR, | GB, GR, IT, LU, NL, SE |            |
|      | CN  | 1057971                  | А          | 19920122  | CN 1991-101809         | 19910310 < |
| PRAI | US  | 1990-487464              | A          | 19900301  | <                      |            |

OS MARPAT 116:108844

The title compds. comprise a mixture of unsatd. fatty alc. such as oleyl alc. and R1(OCH2CH2)nOH (R1 = straight- or branched-chain C10 alkyl; n = 3-8) reacted with H2SO4, wherein the mol ratio of unsatd. alc. plus ethoxylated alc. to H2SO4 is 1:1-3:1, the reaction process is carried out 3.5-4.5 h at 40-50° and 0.04-0.06 mmHg and the mixed product system comprises by weight unsatd. fatty acid sulfate and ethoxylated acid sulfate, 35 and 45%, resp. Since the products tend to be unstable, they should be neutralized to form salts which may be used in laundry detergent compns. A mixture of 96.4% H2SO4 and Et2O was cooled to 0° while adding Me(CH2)9(OCH2CH2)5 and oleyl alc., the reaction was heated to 40-50° for 4 h under vacuum of 0.05 mmHg to give a mixed Me(CH2)7CH:CH(CH2)7CH2OSO3H, Me(CH2)9(OCH2CH2)5OSO3H and starting material. The products in EtOH were neutralized with 1 N NaOH to give a mixed surfactant system containing the appropriate Na salts.

IT 137427-55-5P

RL: IMF (Industrial manufacture); PREP (Preparation) (preparation of, as laundry detergent component)

RN 137427-55-5 HCAPLUS

CN 2-Hexadecen-1-ol, 3,7,11,15-tetramethyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)

Na

```
L133 ANSWER 30 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
     1991:658721 HCAPLUS
ΑN
DN
     115:258721
TI
     Process for sulfating unsaturated alcohols primarily at the hydroxy group
IN
     Randall, Stryker Matthews; Ward, James Frank
PA
     Procter and Gamble Co., USA
SO
     PCT Int. Appl., 34 pp.
     CODEN: PIXXD2
DΨ
     Patent
LA
    English
FAN.CNT 1
```

|      | PATENT NO.              | KIND DA    | ΓE         | APPLICATION NO.         | DATE         |
|------|-------------------------|------------|------------|-------------------------|--------------|
| PI   | WO 9109011<br>W: CA, JP | A1 19      | 910627     | WO 1990-US6761          | 19901116 <   |
|      | •                       | DE, DK, ES | S, FR, GB, | GR, IT, LU, NL, SE      |              |
|      | US 5037992              | A 19       | 910806     | US 1989-451840          | 19891218 <   |
|      | CA 2072622              |            |            | CA 1990-2072622         | 19901116 <   |
|      | CA 2072622              | Ċ 19:      | 950815     |                         |              |
|      | EP 539370               | A1 19      | 930505     | EP 1991-902899          | 19901116 <   |
|      | EP 539370               | B1 19      | 950201     |                         |              |
|      | R: AT, BE, CH,          | DE, DK, ES | S, FR, GB, | GR, IT, LI, LU, NL, S   | SE           |
|      | JP 05502674             |            |            | JP 1991-503204          |              |
|      |                         |            |            | ES 1991-902899          | 19901116 <   |
| PRAI | US 1989-451840          |            |            |                         |              |
|      | WO 1990-US6761          | W 19       | 901116 <-  | · <del>_</del>          |              |
|      | MARPAT 115:258721       |            |            |                         |              |
| AB . |                         |            | -          | re sulfated primarily   |              |
|      |                         |            |            | R1(OCH2CH2)nOSO3M (R1   |              |
|      |                         |            |            | ) in the presence of a  |              |
|      |                         |            |            | se as surfactants. A    |              |
|      |                         |            |            | rith 1.78 g MeOCH2CH2OS |              |
|      |                         | •          |            | nd stirred 18 h to giv  | ve a product |
|      | containing Na oleyl     | sulfate a  | nd MeOCH2C | CH2OH.                  |              |

IT 137427-55-5P

RL: IMF (Industrial manufacture); PREP (Preparation) (preparation of, by transulfation)

RN 137427-55-5 HCAPLUS

CN 2-Hexadecen-1-ol, 3,7,11,15-tetramethyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)

# Na

```
L133 ANSWER 31 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
AN 1991:519827 HCAPLUS
    115:119827
DN
TΙ
    Shampoos comprising cationic guar gum derivative
ΙN
    Reid, Euan Stuart; Murray, Andrew Malcolm
PΑ
    Unilever PLC, UK; Unilever N. V.
SO
    Eur. Pat. Appl., 8 pp.
    CODEN: EPXXDW
DT
    Patent
LA
    English
FAN.CNT 1
    PATENT NO.
                              DATE
                                         APPLICATION NO.
                                                               DATE
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                       ____
                              -----
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PΙ
    EP 432951
                                         EP 1990-313097
                                                              19901203 <--
                        A2
                              19910619
    EP 432951
                       A3
                              19910807
    EP 432951
                       В1
                              19931020
    EP 432951
                       B2
                              20040630
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE
    CA 2031382
                              19910605 CA 1990-2031382
                                                               19901203 <--
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CA 2031382
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     US 5085857
                          Α
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                                             US 1990-621482
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     AT 96013
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    AU 9067725
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                                                                     19901204 <--
     JP 06062392
                          В
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     ZA 9009737
                          Α.
                                 19920826
                                             ZA 1990-9737
                                                                     19901204 <--
     JP 04364111
                          Α
                                 19921216
                                             JP 1990-407427
                                                                     19901204 <--
     JP 07017491
                          В
                                 19950301
PRAI GB 1989-27385
                          Α
                                 19891204
                                           <--
     GB 1990-16101
                          Α
                                          <--
                                 19900723
    EP 1990-313097
                          Α
                                 19901203
                                          <--
```

AB An aqueous shampoo comprises 2-40% surfactant(s), 0.01-3% cationic guar gum derivative, and 0.1-10% insol. nonvolatile silicone as emulsified particles (<2  $\mu$ m particle size). A shampoo was made of ethoxylated Na lauryl ether sulfate 16.0, laurylbetaine 2.0, silicone oil (1% emulsion) 0.5, Jaguar C13s (guar hydroxypropyltriammonium chloride) 0.2, Carbopol-940 0.4 and water to 100.0% by weight

IT 34503-11-2

RL: BIOL (Biological study)

(shampoos containing guar gum cationic derivs. and)

RN 34503-11-2 HCAPLUS

CN Poly(oxy-1,2-ethanediy1),  $\alpha$ -sulfo- $\omega$ -hydroxy-, monosodium salt (9CI) (CA INDEX NAME)

Na

L133 ANSWER 32 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1991:498976 HCAPLUS

DN 115:98976

TI Hair conditioning shampoo containing alkyl or alkoxy sulfate

IN Hartnett, Donna A.; Patel, Amrit M.; Reich, Charles; Robbins, Clarence R.

PA Colgate-Palmolive Co., USA

SO Eur. Pat. Appl., 42 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 11

| PAN. | CNT II         |         |             |                    |            |
|------|----------------|---------|-------------|--------------------|------------|
|      | PATENT NO.     | KIND I  | DATE        | APPLICATION NO.    | DATE       |
|      |                |         |             |                    |            |
| PI   | EP 413417      | A2 1    | 19910220    | EP 1990-306365     | 19900612 < |
|      | EP 413417      | A3 1    | 19910814    |                    |            |
|      | EP 413417      | B1 1    | 19950208    |                    |            |
|      | R: AT, BE, CH, | DE, DK, | ES, FR, GB, | IT, LI, LU, NL, SE |            |
|      | US 5051250     |         |             | US 1989-432644     | 19891107 < |
|      | US 4997641     | A 1     | 19910305    | US 1990-507328     | 19900409 < |
|      | US 5213716     | A 1     | 19930525    | US 1990-507335     | 19900409 < |
|      | IN 179980      | A1 1    | 19980103    | IN 1990-DE582      | 19900614 < |
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| AU 9057533             | Α    | 19911010 | ΑU   | 1990-57533   | 19900618 <           |
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| PL 164567              | B1   | 19940831 |      | 1990-285678  | 19900619 <           |
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|                        |      |          | nu   | 1990-3924    | 19900620 <           |
| HU 210756              | В    | 19950728 |      |              |                      |
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|                        | A5   | 19911031 |      | 1990-341937  | 19900621 <           |
| DD 295310              | A5   | 19911031 |      | 1990-341946  | 19900621 <           |
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| JP 03291212            | Α    | 19911220 | JP   | 1990-163992  | 19900621 <           |
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OS
     MARPAT 115:98976
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AB A hair conditioning composition comprises an anionic detergent which is a C6, C8 and/or C10 alkyl sulfate and/or a C6, C8 and/or C10 alkyl lower alkoxy sulfate, and a hair conditioning agent. A hair conditioning shampoo contained Natrosol 250HHR 0.45, Natrosol 330CS 0.15, Na decyl triethoxy ether sulfate 15.00, lauric monoethanolamide 3.50, ethylene glycol distearate 0.75, stearyl stearate 0.35, C18-36 acid triglyceride 0.75, triacetyl Me ammonium chloride 0.50, distearyldimethylammonium chloride 0.25, microcryst. wax 1.00, petrolatum 1.50, propylene glycol 0.50, and water 75.73%.

IT 34503-11-2

RL: BIOL (Biological study)

(hair coditioning shampoo containing)

RN 34503-11-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -hydroxy-, monosodium salt (9CI) (CA INDEX NAME)

$$HO = \begin{bmatrix} CH_2 - CH_2 - O \end{bmatrix}_n SO_3H$$

Na

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L133 ANSWER 33 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
   1991:230638 HCAPLUS
DN
    114:230638
    Aqueous storage-stable low-foaming wetting agent for use in textile
TΙ
ΙN
    Guth, Christian; Stehlin, Albert
    Ciba-Geigy A.-G., Switz.
    Eur. Pat. Appl., 8 pp.
    CODEN: EPXXDW
DT
    Patent
LA
    German
FAN.CNT 1
    PATENT NO.
                      KIND
                            DATE
                                        APPLICATION NO.
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    EP 420802
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                              19910403
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                       A3
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                       Α
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PRAI CH 1989-3478
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    US 1993-47887
                       В1
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OS
    MARPAT 114:230638
AΒ
    The title wetting agent comprises 10-80% RO(ZO)pR1 (R = C≥8 aliphatic
    group; R1 = H, C1-8 alkyl, C≥5 cycloaliph. group, phenylalkyl,
    styryl; Z = C2-4 alkylene; p = 2-24) and 1-10\% hydrotrope. An agent
    containing an adduct of 15 mol oxirane-methyloxirane mixture and 1 mol C9-11
    fatty alcs. 25, water 63, Na 2-ethylhexyl sulfate 9, and
    3,5,5-trimethylhexanol 3% was used in alkaline bleaching compns. for cotton.
IT
    126-92-1, Sodium 2-ethylhexyl sulfate
    RL: USES (Uses)
       (wetting agents, low-foaming, in bleaching of textiles)
RN
    126-92-1 HCAPLUS
CN
    Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX
    NAME)
   CH2-OSO3H
Et-CH-Bu-n
```

● Na

L133 ANSWER 34 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN AN 1989:560020 HCAPLUS DN 111:160020

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TI Gel denture cleanser containing detergents and chelating agents IN Eoga, Anthony B. J. PA Warner-Lambert Co., USA
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U.S., 13 pp. Cont.-in-part of U.S. 4,701,223. CODEN: USXXAM

DT Patent LA English

FAN.CNT 3

SO

|      | PATENT NO.        |    | DATE     | APPLICATION NO. | DATE       |  |
|------|-------------------|----|----------|-----------------|------------|--|
| ΡI   | US 4807649        | A  | 19890228 | US 1987-68673   | 19870630 < |  |
|      | US 4701223        | A  | 19871020 | US 1986-856715  | 19860428 < |  |
| PRAI | US 1984-684818    | A2 | 19841220 | < <del></del>   |            |  |
|      | US 1986-856715    | A2 | 19860428 | <               |            |  |
| os   | MARPAT 111:160020 |    |          |                 |            |  |

AB A gel denture cleanser comprises (1) a water-soluble detergent selected from sulfonated fatty alcs. ROSO3M, sulfated fatty alcs. ROSO4M, and sulfoacetate ROCOCH2SO3M (R = C10-16 alkyl; M = alkali metal, alkaline earth metal), (2) a water-soluble chelating agent selected from amino carboxylates, organo phosphonates, and mixts. thereof, (3) a gelling agent, and (4) water. The combination of the detergent and the chelating agent alleviates the adverse respiratory and inhalation problems associated with the detergent and increases the cleansing efficacy. A gel dentrure cleanser contained Na CMC 3.0, Na dodecylbenzene sulfonate 5.0, Na4EDTA 10.0, PEG 6.0, and water 76.6% by weight Stained denture tiles brushed with the cleanser showed significantly less strain remaining on the tiles than on the tiles cleaned with only water.

IT 139-88-8, Sodium 7-ethyl-2-methyl-4-undecyl sulfate
RL: BIOL (Biological study)

(denture cleansing gel containing chelating agents and)

RN 139-88-8 HCAPLUS

CN 4-Undecanol, 7-ethyl-2-methyl-, hydrogen sulfate, sodium salt (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

### Na

L133 ANSWER 35 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1988:226685 HCAPLUS

DN 108:226685

TI Sprayable liquid denture cleansers containing a fatty alcohol sulfate, sulfonate, and/or sulfoacetate and an amino carboxylate and/or organophosphonate

IN Eoga, Anthony B. J.

PA Warner-Lambert Co., USA

SO U.S., 10 pp. Cont.-in-part of U.S. Ser. No. 684,818, abandoned. CODEN: USXXAM

DT Patent

LA English

FAN.CNT 3

PATENT NO. KIND DATE APPLICATION NO. DATE

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PΙ
    US 4701223
                                                                  19860428 <--
                         Α
                               19871020
                                           US 1986-856715
                       A1
    CA 1255233
                               19890606
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                                                                  19851218 <--
                        Α
    AU 8551511
                               19860626
                                           AU 1985-51511
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    AU 589932
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    JP 62000008
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    US 4807649
                         Α
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PRAI US 1984-684818
                        A2
                               19841220
                                        <--
    US 1986-856715
                        A2
                               19860428 <--
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AB A storage-stable liquid denture cleanser comprises a **detergent** selected from sulfonated fatty alc. ROSO2M, a sulfated fatty alc. ROSO3M, and/or sulfoacetate ROCOCH2SO3M (R = C10-16, M = water-soluble alkali or alkaline

earth metal) .apprx.3-18; a water-soluble chelating agent consisting of amino carboxylate and/or organophosphonates .apprx.3-18; and water 50-94 weight%. The cleanser is preferably sprayable. A 50-mL portion of a composition of Na lauryl sulfate 10.0, Na4EDTA 5.0, methylparaben 0.1, propylparaben 0.05, polyethylene glycol E400 1.0, and water 52.05 weight% dissolved 100 mg hydroxyapatite powder (representing tartar and calculus) in 2 h and the solution remained clear even after 1 wk at room temperature Control solns.

were

cloudy after 1-wk of soaking. Tests with dentures confirmed these results.

IT 139-88-8, Sodium 7-ethyl-2-methyl-4-undecyl sulfate RL: BIOL (Biological study) (denture cleanser containing chelating agent and)

RN 139-88-8 HCAPLUS

CN 4-Undecanol, 7-ethyl-2-methyl-, hydrogen sulfate, sodium salt (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

### Na

L133 ANSWER 36 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN 1988:206709 HCAPLUS ΑN DN 108:206709 Fire-fighting foam ΤI IN Hiltz, Ralph H.; Greer, John S.; Friel, Joseph V. PA Mine Safety Appliances Co., USA SO U.S., 3 pp. CODEN: USXXAM DTPatent LA English FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. \_\_\_\_ \_\_\_\_\_

DATE -----------US 4713182 Α 19871215 US 1986-927386 19861106 <--Α GB 2196846 19880511 GB 1987-24119 19871014 <--GB 2196846 В 19900912 A1 DE 3736743 19880511 DE 1987-3736743 19871030 <--Α PRAI US 1986-927386 19861106 <--

AB Stable concs. with low viscosity, which can be diluted with H2O and foamed

for application on fires and spills of polar liqs. or H2O-immiscible organic materials, contain citrus pectin 4-6, alkylbetaines 3-9, Na C8-13-alkyl sulfates 9-20, and the salts RCONHCH2CH2NX1X2CH2CH2OH (R = C8-12 alkyl; X1 = CH2CO2-, CH2CH2CO2-; X2 = H, CH2CO2H) 4-12%. A concentrate containing pectin 5,

coco betaine 7.5, C5H11CONHCH2CH2N+(CH2CO2H)(CH2CH2OH)CH2CH2CO2- 10, Na 2-ethylhexyl sulfate 10.5, F(CF2CF2)3-8CH2CH2SCH2CH2CO2Li (Zonyl FSA) 2, and H2O 65 lb (viscosity .apprx.3 P at room temperature) was diluted to 3%, foamed, and applied at 0.04 gal/min-ft2 to burning heptane, giving a control time of 1:15 and an extinguishing time of 1:50.

IT 126-92-1, 2-Ethylhexyl sodium sulfate

RL: USES (Uses)

(foaming agents, concs. containing, for fire extinguishing)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)

CH2-OSO3H | Et-CH-Bu-n

## Na

L133 ANSWER 37 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1986:610833 HCAPLUS

DN 105:210833

TI Gelled detergent composition for cleaning pads

IN Magyar, Arpad M.

PA Pennzoil Co., USA

SO U.S., 6 pp.

CODEN: USXXAM

DT Patent

LA English

FAN CNT 1

| PATENT NO.                           | KIND | DATE                 | APPLICATION NO.  | DATE       |  |
|--------------------------------------|------|----------------------|------------------|------------|--|
| PI US 4613446<br>PRAI US 1985-711151 | A .  | 19860923<br>19850313 | US 1985-711151 • | 19850313 < |  |

OS MARPAT 105:210833

AB A gelled **detergent** composition containing water, alkali metal hydroxide, alkali metal phosphate, wetting agent, fatty acid, chelating agent, and surfactant is useful in a cleaning device such as a plastic mesh pad or sponge for the cleaning of whitewall tires, vinyl tops, and bumpers of automobiles, etc. Thus, a mixture of H2O 56.49, 50% aqueous NaOH 4.50, K tripolyphosphate 3.00, Na 2-ethylhexyl sulfate 10.00, stearic acid 15.00, EDTA 0.50, Triton X 102 10.00, blue dye 0.01, and pine oil 0.50% was heated to 180° F, added to a plastic mesh pad, and gelled by cooling to prepare a cleaning pad.

IT 126-92-1

RL: USES (Uses)

(detergent gels containing, cleaning pads impregnated with)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)

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CH2-OSO3H
|
Et-CH-Bu-n
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8CI, 9CI) (CA INDEX NAME)

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L133 ANSWER 38 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
          1986:502365 HCAPLUS
AN
          105:102365
DN
         Liquid cleansing composition
ΤI
IN
       Eoga, Anthony B. J.
PΑ
         Warner-Lambert Co., USA
SO
          Eur. Pat. Appl., 23 pp.
          CODEN: EPXXDW
DT
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LA
          English
FAN.CNT 3
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                                                                   DATE
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AU 1
                                                                                          AU 1985-51511
                                                                                                                                            19851220 <--
                                                                                           ZA 1985-9781
                                                                                                                                            19851220 <--
                                                                                        JP 1985-285948
                                                                                                                                           19851220 <--
OS
          MARPAT 105:102365
AΒ
          A liquid cleanser composition, particularly useful as a denture cleanser
          comprises (1) a sulfonated or sulfated fatty alc. detergent,
          ROSO3M (R = C10-16 alkyl; M = alkali metal), (2) a chelating agent of the
          aminocarboxylate or organophosphonate type, and (3) 50-98% water. The
          composition is designed to be delivered to the surface through a spray pump
          system. Thus, a denture cleanser was formulated containing Na lauryl sulfate
          10, Na4-EDTA 5, flavor, color, preservative 0.5, and water 85.5%. The
          composition was sprayed on tiles with plaque and food stains. The tiles
          cleaned by the above composition for 2 min were significantly cleaner than
          those cleaned with com. denture tablets.
ΙT
          139-88-8
          RL: BIOL (Biological study)
                  (denture cleanser containing chelating agent and)
RN
          139-88-8 HCAPLUS
CN
          4-Undecanol, 7-ethyl-2-methyl-, hydrogen sulfate, sodium salt (6CI, 7CI,
```

```
OSO3H Et
| | | |
i-Bu-CH-CH<sub>2</sub>-CH<sub>2</sub>-CH-Bu-n
```

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L133 ANSWER 39 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
     1981:499697 HCAPLUS
DN
     95:99697
TΙ
     Cationic liquid laundry detergent and fabric softener
ΙN
     Beeks, Michael J.; Wysocki, Allen J.
PA
     De Soto, Inc., USA
SO
     U.S., 9 pp.
     CODEN: USXXAM
DT
     Patent
LA
     English
FAN.CNT 1
    PATENT NO.
                        KIND
                               DATE
                                           APPLICATION NO.
     ______
                        ----
                               _____
                                           -----
ΡĮ
    US 4264457
                         Α
                                19810428
                                           US 1980-118591
                                                                  19800204 <--
    CA 1141506
                        A1
                               19830222
                                          CA 1980-362062
                                                                  19801009 <--
PRAI US 1980-118591
                        A
                               19800204 <--
     Liquid detergents for the simultaneous washing and softening of
     fabrics contain nonionic surfactants, anionic surfactants such as Na.
     2-ethylhexyl sulfate (I) [126-92-1] and an alkyl ether sulfate,
     and cationic surfactants such as RN+Me3 Cl- (R = tallow alkyl) (II) and
     [RN+Et[(CH2CH2O)mH][(CH2CH2O)nH]2SO42-(R = coco alkyl, m + n = 15)]
     (III). Thus, a detergent contained H2O ≈80, Nonoxynol 8
     [26027-38-3] 5, whitener 0.3, I 1.9, RO(CH2CH2O) nSO3Na (R = C12-15 alkyl,
     average n = 3) 1.9, N(CH2CH2OH)3 2.5, III 2.1, II 4, and
     cocoamidopropyldimethylamine oxide 2.5 parts.
ΙT
     126-92-1
     RL: USES (Uses)
        (liquid detergents containing, for washing and softening of
        textiles)
RN
     126-92-1 HCAPLUS
CN
     Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI)
     NAME)
   CH2-OSO3H
Et-CH-Bu-n.
```

● Na

AN 1981:123541 HCAPLUS
DN 94:123541
TI Aqueous thickened bleach composition including alkali metal hypochlorite
IN Citrone, Anthony Maurice; Pontin, Stephen Boyd

L133 ANSWER 40 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

PA Reckitt and Colman Products Ltd., UK

Eur. Pat. Appl., 21 pp.

CODEN: EPXXDW

DT Patent LA English FAN.CNT 1

|      |    |                |        |          | )   | DATE                 | AFI    | PLICATION NO. | <br>DATE |   |
|------|----|----------------|--------|----------|-----|----------------------|--------|---------------|----------|---|
|      |    | 21581<br>21581 |        | A1<br>B1 |     | 19810107<br>19851218 | EP     | 1980-301554   | 19800513 | < |
|      |    | R: AT,         | BE, CH | DE,      | FR, | , GB, IT,            | LU, NI | L, SE         |          |   |
|      | GB | 2051162        |        | A        |     | 19810114             | GB     | 1980-15582    | 19800512 | < |
|      | ΑT | 13073          |        | T        |     | 19850515             | AT     | 1980-301554   | 19800513 | < |
|      | ΑT | 17022          |        | T        |     | 19860115             | AT     | 1980-301554   | 19800513 | < |
|      | ZA | 8002871        |        | Α        |     | 19810729             |        | 1980-2871     | 19800514 | < |
|      | US | 4282109        |        | Α        |     | 19810804             | US     | 1980-149974   | 19800515 | < |
|      | CA | 1149558        |        | A1       |     | 19830712             | CA     | 1980-352111   | 19800516 | < |
|      | ΑU | 8058653        |        | Α        |     | 19801204             | AU     | 1980-58653    | 19800522 | < |
|      | ΑÚ | 536094         |        | В2       |     | 19840419             |        |               |          |   |
|      | BR | 8003248        |        | Α        |     | 19801230             | BR     | 1980-3248     | 19800523 | < |
|      | NO | 8001570        |        | Α        |     | 19801201             | NO     | 1980-1570     | 19800527 | < |
|      | NO | 155546         |        | В        |     | 19870105             |        |               |          |   |
|      | NO | 155546         |        | С        |     | 19870422             |        |               | •        |   |
|      | DK | 8002322        |        | Α        |     | 19801201             | DK     | 1980-2322     | 19800529 | < |
|      | DK | 155836         |        | В        |     | 19890522             |        |               |          |   |
|      | DK | 155836         |        | С        |     | 19891016             |        |               |          |   |
|      | IN | 151487         |        | A1       |     | 19830507             | IN     | 1980-CA641    | 19800530 | < |
| PRAI | GB | 1979-1872      | 1      | Α        |     | 19790530             | <      |               |          |   |
|      | EΡ | 1980-3015      | 54     | Α        |     | 19800513             | <      |               |          |   |

AB A C13-15- or C12-16-alkyldimethylamine oxide and a Na C8-12-alkyl sulfate are used to thicken bleaching solns. containing NaOCl. The solns. have good viscosity stability and phase stability during storage. Thus, a solution prepared from NaOCl solution (15% available Cl, 14.4% NaCl) 66.67, 46.8% NaOH solution 2.14, 30% C13-15-alkyldimethylamine oxide (Synprolam 35DMO) solution 3.67, 33% Na 2-ethylhexyl sulfate [126-92-1] solution 0.36, perfume 0.125, and H2O 2.035 parts had cloud point 46° and initial viscosity 58 cP. After 21 days at 37° in darkness, the viscosity was 39 cP.

IT 126-92-1

RL: USES (Uses)

(thickening agents, for sodium hypochlorite solns.)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)

CH2-OSO3H | Et-CH-Bu-n

Na

L133 ANSWER 41 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1979:56753 HCAPLUS

DN 90:56753

TI Antimicrobial bathroom cleaning compositions containing

```
o-benzyl-4-chlorophenol
    Schwalley, Lawrence L.; Ferm, Donald J.
TN
    United States Borax and Chemical Corp., USA
PA
    U.S., 3 pp.
SO
    CODEN: USXXAM
DT
    Patent
    English
LA
FAN.CNT 1
    PATENT NO.
                       KIND
                              DATE
                                          APPLICATION NO.
                                                                DATE
                      ----
                                         _____
    -----
                              _____
                                                                _____
                              19781107 US 1977-807774
19801007 CA 1978-297557
                       A
PΙ
    US 4124520
                                                                19770620 <--
                       A1
A
    CA 1087063
                                                                19780223 <--
                              19801015 GB 1978-18949
    GB 1576920
                                                               19780511 <--
                      A1 19790111 DE 1978-2825168
A 19790123 JP 1978-74064
                      A1
    DE 2825168
                                                               19780608 <--
    JP 54008721
                                                               19780619 <--
                       В
    JP 60004876
                              19850207
    FR 2395035
                       A2
                                        FR 1978-18390
                             19790119
                                                               19780620 <--
    FR 2395035
                       B2 19850712
                       Α
PRAI US 1977-807774
                             19770620 <--
    The germicidal cleaning compns. contain o-benzyl-4-chlorophenol (I)
    [120-32-1], Na 2-ethylhexyl sulfate (II) [126-92-1], a glycol
    solvent, and N(CH2CO2Na)3 [5064-31-3] or EDTA tetra-Na salt (III)
    [64-02-8]. Thus, a cleaning composition contained I 0.15, II 4.5, III (38%)
    12.5, hexylene glycol [107-41-5] 1, dodecylbenzenesulfonic acid 0.3,
    iso-PrOH 2.5, NaOH 0.0126, perfume 0.08, and water .apprx.79%.
    126-92-1
TΤ
    RL: TEM (Technical or engineered material use); USES (Uses)
       (cleaning compns. containing, germicidal, for bathrooms)
    126-92-1 HCAPLUS
RN
CN
    Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX
```

CH2-OSO3H | Et-CH-Bu-n

### Na

L133 ANSWER 42 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN 1975:481859 HCAPLUS AN DN 83:81859 ΤI Liquid bleach and cleaning compositions IN Nakagawa, Yunosuke; Inamoto, Yoshiaki; Aigami, Koji PA Kao Soap Co., Ltd., Japan SO Ger. Offen., 15 pp. CODEN: GWXXBX DТ Patent LA German FAN.CNT 1 KIND APPLICATION NO. PATENT NO. DATE DATE --------------\_\_\_\_\_\_ DE 2458100 A1 19750612 DE 1974-2458100 19741207 <--PΙ B2 19800327 DE 2458100 С3 DE 2458100 19801113 JP 50089280 A 19750717 JP 1973-139338 19731211 <--

```
JP 56005800
                          В
                                19810206
     US 3929661
                          Α
                                19751230
                                            US 1974-531226
                                                                    19741209 <--
     GB 1466610
                          Α
                                19770309
                                            GB 1974-53352
                                                                    19741210 <--
     FR 2253826 ·
                          Α1
                                19750704
                                            FR 1974-40819
                                                                    19741211 <--
PRAI JP 1973-139338
                          Α
                                19731211 <--
```

AB Stable liquid cleaning compns. were prepared which contained NaOCl, water, and RCMe2CH2O(CH2CH2O)nSO3Na (R = C8H17 or C12H25, n = 0, 6, 8, or 20). Thus, 2 parts H(CH2)8CMe2CH2OSO3Na (I) [18432-41-2] was mixed with 48 parts water and 50 parts aqueous solution containing NaOCl 12, NaCl 0.5, and

NaOH 2%

to give a transparent solution I was prepared from 1-decene [872-05-9] and isobutyric acid [79-31-2] at  $140^{\circ}$  in the presence of tert-Bu2O2, followed by reduction to the alc. with LiAlH4 and treatment with SO3 and NaOH.

IT 18432-41-2

RL: USES (Uses)

(detergents containing sodium hypochlorite and, liquid)

RN 18432-41-2 HCAPLUS

CN 1-Decanol, 2,2-dimethyl-, hydrogen sulfate, sodium salt (8CI, 9CI) (CA INDEX NAME)

### Na

L133 ANSWER 43 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1973:104369 HCAPLUS

DN 78:104369

TI Chemiluminescent composition containing a surfactant

IN Cline, Edward T.

PA du Pont de Nemours, E. I., and Co.

SO U.S., 4 pp. CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

AB

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE       |  |
|------|----------------|------|----------|-----------------|------------|--|
|      |                |      |          |                 |            |  |
| ΡI   | US 3714054     | A    | 19730130 | US` 1965-507081 | 19651108 < |  |
| PRAI | US 1965-507081 | А    | 19651108 | <               |            |  |

Chemiluminescent compns. suitable as emergency light sources to aid sea rescue operations consisted of emulsions of oxyluminescent (R2N)2C:C(NR2)2, where R is monovalent alkyl or cycloalkyl groups having ≤10 C atoms, in aqueous alkali containing non-ionic, cationic or amphoteric surfactants. Thus, a H2O-in-oil emulsion was prepared under N from 8.8 parts (by weight) of a com. surfactant of formula RN(C2H4OH)2 in which the RN residue was derived from coconut oil amine, 86 parts of (Me2N)2C:C(NMe2)2, 123 parts acid-washed mineral oil, and 133 parts of 10% NaOH. The emulsion was agitated ultrasonicaly for 1 min. The emulsion produced a bright chemiluminescence when spread on glass fiber paper. The emulsion placed on H2O remained within a relatively small area and emitted

blue-green light of good brightness for >1 hr.

IT 40386-34-3

'RL: PRP (Properties)

(chemiluminescent composition containing, for sea rescue emergency light source)

RN 40386-34-3 HCAPLUS

CN 2-Hexene-1-sulfonic acid, 2-ethyl-, sodium salt (9CI) (CA INDEX NAME)

# Na

L133 ANSWER 44 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1973:59545 HCAPLUS

DN 78:59545

TI Biodegradable emulsifier for polychloroprene

IN Turner, Nathan Larry

PA Petro-Tex Chemical Corp.

SO Ger. Offen., 23 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

| T 1 114 | CIVI I         |      |          |                 |            |
|---------|----------------|------|----------|-----------------|------------|
|         | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE       |
|         |                |      |          |                 |            |
| ΡI      | DE 2210957     | A1   | 19721130 | DE 1972-2210957 | 19720307 < |
|         | US 3759886     | Α    | 19730918 | US 1971-144226  | 19710517 < |
|         | CA 1001799     | A1   | 19761214 | CA 1972-133094  | 19720124 < |
|         | IT 952080      | В    | 19730720 | IT 1972-48724   | 19720302 < |
|         | FR 2139235     | A5   | 19730105 | FR 1972-11093   | 19720329 < |
|         | GB 1382314     | A    | 19750129 | GB 1972-22787   | 19720516 < |
| PRAT    | US 1971-144226 | А    | 19710517 | <               |            |

AB Duponol 80 (Na octyl sulfate) [142-31-4] is used as the secondary emulsifier during the emulsion polymerization of chloroprene [126-99-8] with disproportionated rosin as the emulsifier. Duponol 80 is biodegradable, and the emulsifier solns. separated from coagulated polychloroprene [9010-98-4] can be discarded without removing the emulsifier.

IT 126-92-1

RL: USES (Uses)

(detergents, biodegradable, and preparation of neoprene rubber)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)

Na

```
L133 ANSWER 45 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
AN 1973:44995 HCAPLUS
DN
    78:44995
TΙ
    Wetting and rewetting agents for substrates such as paper and textiles
IN
    Tanner, Alan Roger; Milligan, John Gordon; Bertini, Angelo Joseph
PΑ
     Jefferson Chemical Co., Inc.
SO
    Ger. Offen., 16 pp.
    CODEN: GWXXBX
DΤ
    Patent
LA
    German
FAN.CNT 1
     PATENT NO.
                      KIND
                              DATE
                                         APPLICATION NO.
                                                                DATE
     -----
                       ____
                              -----
                                          -----
                                                                -----
PΙ
    DE 2221667
                       Α
                              19721116
                                       DE 1972-2221667
                                                                19720503 <-- >
    GB 1389312
                       Α
                              19750403
                                         GB 1972-17870
                                                               19720418 <--
PRAI US 1971-139873
US 1971-139874
                       A
                              19710503 <--
                       Α
                              19710503 <--
AΒ
    The title wetting and rewetting agents, C12-20Na vinylidene
    olefinsulfonates, e.g., Na 2-hexyl-1-decenesulfonate (I) [
    38233-97-5], gave improved wetting results compared with those of
    the usual Na \alpha-olefin sulfonates (II). Thus, aqueous 0.25% I solution had
    wetting time (Draves-Clarkson Wetting Test, AATCC Test Method 17-1952,
     25.deg., 1.5 g hook weight, 0% oil in test yarn) <1.0 sec compared with 12.4
     for the corresponding C16 II.
ΙT
    38233-97-5
     RL: USES (Uses)
        (wetting agents, for paper and textiles)
RN
    38233-97-5 HCAPLUS
CN
     1-Decene-1-sulfonic acid, 2-hexyl-, sodium salt, (9CI) (CA INDEX NAME)
```

$$\begin{array}{c} \text{CH-SO}_{3}\text{H} \\ || \\ \text{Me- (CH}_{2})_{\,5}\text{--C--- (CH}_{2})_{\,7}\text{--Me} \end{array}$$

Na

| L133          | ANSWER 46 OF 55 HC                                      | APLUS  | COPYRIGHT   | 2007 ACS on STN      |            |   |  |  |
|---------------|---|--------|-------------|----------------------|------------|---|--|--|
| AN            | 1973:22516 HCAPLUS                                      |        |             |                      |            |   |  |  |
| DN            | 78:22516  |        |             |                      |            |   |  |  |
| ΤI            | Surfactants as aids                                     | for fi | ilm-forming | molding compositions |            |   |  |  |
| IN            | Pollet, Robert J.; De Fre, Marcel C.; De Cat, Arthur H. |        |             |                      |            |   |  |  |
| PA            | A Agfa-Gevaert N.V., Belg.                              |        |             |                      |            |   |  |  |
| SO            | Belg., 17 pp.   |        |             |                      |            |   |  |  |
|               | CODEN: BEXXAL   |        |             | •                    |            |   |  |  |
| $\mathtt{DT}$ | Patent  |        |             |                      |            |   |  |  |
|               | French  |        |             |                      |            |   |  |  |
| FAN.          | CNT 2   |        |             |                      |            |   |  |  |
|               | PATENT NO.  | KIND   | DATE        | APPLICATION NO.      | DATE       |   |  |  |
| DT            | DB 363304   | 7.0    | 10711100    | DB 1031 2116         | 10710507   | _ |  |  |
| ΡI            | BE 767724   | A2     | 19711129    |                      | 19710527 < |   |  |  |
|               | FR 2095713  | A5     | 19720211    |                      | 19710527 < |   |  |  |
|               | US 3793032  | A      |             | US 1971-150197       | 19710604 < |   |  |  |
| PKAI          | GB 1970-27080   | A      | 19700604    | <                    |            |   |  |  |

AB Surfactants, RSO3M [R = C10-20 alkyl or R1R2R3C(CH2)n (R1, R2 = alkyl or together form a cycloaliphatic nucleus; R3 = H, alkyl; n = 0, 1); M = H, alkali metal, ammonium, organic ammonium], added at 0.01-5% by weight of the colloid to coating compns. containing hydrophilic colloids, especially gelatin-Ag

halide photog. emulsions, suppress the formation of static lines in photog. materials. Thus, isohexadecanol 914 g was treated with excess HBr yielded 1092 g isohexadecylbromide (I). I 305 g and thiourea 76 g were added to EtOH 600 ml and the residue recrystd. to yield isohexadecylthiourea bromide which was oxidized and saponified to yield Na isohexadecylsulfonate (II). The addition of 10 ml of a 5% aqueous solution of

II/kg

of gelatin-Ag halide emulsion gave a photog. material with 1 static line/m2 vs. 8 static lines/m2 for a control containing 15 ml of a 12% aqueous solution of saponin/kg of emulsion.

IT 35071-72-8

RL: USES (Uses)

(surfactant, for photographic gelatin emulsions)

RN 35071-72-8 HCAPLUS

CN 1-Octanesulfonic acid, 5,7,7-trimethyl-2-(1,3,3-trimethylbutyl)-, sodium salt (9CI) (CA INDEX NAME)

## Na

L133 ANSWER 47 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1972:516392 HCAPLUS

DN 77:116392

TI Enzymic detergents containing citrate builders

IN Mast, Roy Clark

PA Procter and Gamble Co.

SO Ger. Offen., 40 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 2

|      | PATENT NO.    | KIND  | DATE     | APPLICATION NO. | DATE       |
|------|---------------|-------|----------|-----------------|------------|
| PI   | DE 2161779    | <br>A | 19720629 | DE 1971-2161779 | 19711213 < |
|      | IT 943885     | В     | 19730410 | IT 1971-32308   | 19711213 < |
|      | NL 7117151    | A     | 19720616 | NL 1971-17151   | 19711214 < |
| PRAT | US 1970-98114 | А     | 19701214 | <               |            |

AB Biodegradable detergent compns., free of eutrophication-promoting polyphosphates, and active at .leq.54.deg. and pH 6-10 contained an organic syndet, e.g.  $\beta$ -(acyloxy)alkanesulfonate, alkyl oxyethylene ether sulfate, or  $\beta$ -alkoxyalkanesulfonate, K citrate (I) [7778-49-6] or Na citrate [994-36-5] builder, a proteolytic enzyme, and other common additives. Thus, a detergent composition of good cleaning properties contained Na  $\beta$ -acetoxy-1-hexadecanesulfonate [16916-83-9] 40, I 40, NaCl 20, and pronase C 0.6 part.

IT **34503-11-2D**, Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -hydroxy-, monosodium salt, tallow alkyl ethers

RL: TEM (Technical or engineered material use); USES (Uses) (detergent compns. containing, phosphate-free)

RN 34503-11-2 HCAPLUS

CN Poly(oxy-1,2-ethanediy1),  $\alpha$ -sulfo- $\omega$ -hydroxy-, monosodium salt (9CI) (CA INDEX NAME)

$$HO = \begin{bmatrix} CH_2 - CH_2 - O \end{bmatrix}_n SO_3H$$

## Na

L133 ANSWER 48 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1972:503643 HCAPLUS

DN 77:103643

TI Rinse aid compositions

IN Crotty, Homer E.

PA W. R. Grace and Co.

SO U.S., 4 pp. CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

|      | PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE       |
|------|---------------|------|----------|-----------------|------------|
|      |               |      |          |                 |            |
| PI   | US 3563901    | A    | 19710216 | US 1970-18016   | 19700226 < |
| PRAI | US 1970-18016 | Α    | 19700226 | <               |            |

Dishwashing machines rinse aids which gave good sheet flow and little or no residue, were prepared from a nonionic surfactant and an alkali metal or NH4 salt of an alc. sulfate. As an example, a rinse aid was prepared comprising water 40, Na 2-ethylhexyl sulfate [126-92-1] 25, Makon NF-5 20, 70% H3PO4 10, and an anionic surfactant 5%.

IT 126-92-1

RL: TEM (Technical or engineered material use); USES (Uses) (surfactants, for dishwashing rinse aides)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)

## Na

L133 ANSWER 49 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1972:422024 HCAPLUS

DN 77:22024

TI Low-foam anionic acid sanitizer compositions

IN Sedliar, Ronald M.; Garvin, Donald F.; Aepli, Otto T.

```
PΑ
    BASF Wyandotte Corp.
    U.S., 4 pp.
SO
    CODEN: USXXAM
DΤ
    Patent
LA
    English
FAN.CNT 1
    PATENT NO.
                       KIND
                              DATE
                                         APPLICATION NO.
                                                               DATE
     -----
                       ____
                             -----
                                         ______
                                                               _____
                                       US 1968-728766
                    A
A
    US 3650964
                              19720321
PΙ
                                                              19680513 <--
PRAI US 1968-728766
                             19680513 <--
    The title compns. were prepared from anionic surfactants or blends of
    surfactants in an acid medium. Thus, a low-foaming sanitizer comprised
    Sul-Fon-Ate OA-5 5, 75% phosphoric acid [7664-38-2] 40, and water 55
    parts. The sanitizer (100 ppm surfactant) killed >99.999% Escherichia
    coli and Staphylococcus aureus according to Association of Official
    Agricultural Chemists (1965) and U.S. Public Health Service (1965) standard
    tests. The foam volume after 1, 3, and 5 min shaking was 64, 7, and 2,
    resp., compared with 160, 140, and 135, resp., for a prior art sanitizer.
ΙT
    126-92-1
    RL: USES (Uses)
        (sanitizing compns. containing, low-foaming)
RN
    126-92-1 HCAPLUS
CN
    Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX
   CH2-OSO3H
Et-CH-Bu-n
    ● Na
L133 ANSWER 50 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
    1971:424778 HCAPLUS
AN
DN
    75:24778
    Composition for destroying hardened cementitious mixtures
TI
ΙN
    Haines, Robert G.
PΑ
    Union Carbide Corp.
SO
    U.S., 4 pp.
    CODEN: USXXAM
DT
    Patent
LA
    English
FAN.CNT 1
                                    APPLICATION NO.
    PATENT NO.
                      KIND
                              DATE
                                                              DATE
    -----
                       ____
                             -----
                                         ______
                                                               _____
    US 3577349
PΤ
                      Α
                            19710504
                                        US 1969-795709
                                                              19690131 <--
PRAI US 1969-795709
                              19690131 <--
    To remove concrete from various substrates such as ready-mix truck drums,
    the composition consists of methyl acetoacetate 60-99, H2O 1-40, and an anionic
    (I), cationic (II) or nonionic (III) detergent 0.5-5 by weight I
    is the alkyl sulfate or ethoxy sulfate of secondary alcs. (Tergitol 4, 6,
```

Residual traces of the composition do not adversely affect the properties of

15-S-3S); II is 1-hydroxyethyl-2-heptadecenylglyoxalidine; III is the ethoxylate of branched secondary alcs. (Tergitol 15-S-3, 15-S-9).

newly mixed concrete.

3282-85-7

ΙT

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RL: USES (Uses)
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(disintegrating compositions, for hardened concrete)

RN 3282-85-7 HCAPLUS

CN 6-Tridecanol, 3,9-diethyl-, hydrogen sulfate, sodium salt (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

## Na

L133 ANSWER 51 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1966:439840 HCAPLUS

DN 65:39840

OREF 65:7476h,7477a-c

Surface active compositions

ΙN Weiss, Herbert D.; Gellner, Otto; Panzer, George W.

PΑ Alcolac Chemical Corp.

SO 9 pp.

DTPatent

LA Unavailable

FAN.CNT 1

PΙ

DATE KIND PATENT NO. APPLICATION NO. DATE -----\_\_\_\_\_ -----\_\_\_\_\_ US 3256202 19660614 US 1964-37179964 19640601 <--PRAI US 19640601 <--

Detergent compns. having high cleansing activity and low foaming properties comprise mixts. of 5-85% of salts of C1-4 and of salts of C16-30 sulfated aliphatic alcs. with the average C content per mol. being 7-22. The lower-mol.-weight salts include Na Me sulfate (I), triethanolamine Me sulfate, Na Et sulfate (II), K Pr sulfate, Na Bu sulfate, etc. Typical higher mol. weight salts include com. Na lauryl sulfate (III), Na, NH4-, or triethanolamine cetyl sulfate, Na, Li, Mg, or diethanolamine stearyl sulfate, Na oleyl sulfate, or similar salts, such as Na salt of sulfated tallow (IV). Thus, the foaming of solns. of III was compared with similar characteristics of mixts. of high- and low-mol.-weight salts by subjecting 60-cc.-portions to 1 min. agitation with rotations of 50 rpm. With a concentration of 0.25% III, foam volume was 296 cc.; with 0.5% III it was 300+; with 0.25% concentration of mixture of 26 mole % of I and 74 mole % of IV, foam volume was 0 and with 0.5% concentration of mixture it was 80; with 0.25% concentration of

mixture of 21 mole % of II and 79 mole % of IV, the foam was 15 cc.; and with 0.5% of the mixture, it was 100 cc. Detergent compns. containing phosphates, silicates, carbonates, sulfates, dyes, perfumes, etc., still maintain low foaming properties. A suggested formulation contains Na5P3010 40, silicate (1:2 Na2O:SiO2) 12, Na2CO3 20, Na2SO4 10, and detergent 16 parts. When the detergent was a mixture of 9% II and 91% IV, the foam was about 50% of that when the detergent was III.

IT 126-92-1, 1-Hexanol, 2-ethyl-, hydrogen sulfate, Na salt (cleaning compns. containing)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)

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CH2-OSO3H
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Na

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L133 ANSWER 52 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
   1954:5607 HCAPLUS
     48:5607
OREF 48:1036a-c
    2-(1,3,3-Trimethylbutyl)-5,7,7-trimethyl-1-octanol sulfate
    Pavlic, Albert A.
    E. I. du Pont de Nemours & Co.
DT
     Patent
    Unavailable
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                           APPLICATION NO.
     _____
                                -----
                                            -----
  . US 2654772
                                           US 1950-160587
                                19531006
                                                                    19500506 <--
    The highly branched primary alkanol, obtained through aldol condensation
    of 3,5,5-trimethylhexanal followed by hydrogenation, is sulfated and the
     resulting acid is neutralized with an organic or inorg. base to give a
    high-speed wetting agent which is soluble in hydrocarbons, unlike
    straight-chain sulfonates. For example, 1611 g. 3,5,5-trimethylhexanal and 100 g. piperidine acetate are stirred at 98° for 7 hrs. and
     allowed to stand at 98° for 63 hrs. Distillation gives 855 g.
     octadecenal (I), b4.5 124-40°. I is hydrogenated with 5.3% Ni on
     kieselguhr at 155-60° and 700 atms. Distillation gives 661 g. of
     2-(1,3,3-trimethylbutyl)-5,7,7-trimethyl-1-octanol, b6 120-48°,
     which is further purified by rehydrogenation and distillation, the purified
alc.
     having n25D 1.4497, b7 146° or b3 141°. The alc. is treated
     with an equimol. weight of C1SO3H. This product is neutralized with NaOH to
     give a salt recoverable as a flaky solid.
ΙT
     181355-81-7P, 1-Octanol, 5,7,7-trimethyl-2-(1,3,3-trimethylbutyl)-
     , sulfate, Na salt
     RL: PREP (Preparation)
        (preparation of)
RN
     181355-81-7 HCAPLUS
     1-Octanol, 5,7,7-trimethyl-2-(1,3,3-trimethylbutyl)-, hydrogen sulfate,
CN
```

sodium salt (9CI) (CA INDEX NAME)

Na

L133 ANSWER 53 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1945:26183 HCAPLUS

DN 39:26183

OREF 39:4200h-i,4201a,4202a

II Secondary alkyl sulfates in germicidal preparations

IN Baker, Zelma; Miller, Benjamin F.

DT Patent

LA Unavailable

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

----US 2380011 19450710 US <--

PΙ Branched-chain secondary alkyl sulfates having 10-21 C atoms have marked AΒ wetting and detergent properties and ionize with the lipophylic group in the anion. They have the general formula R1R2CHSO4X where R1 and R2 are alkyl groups, either or both being branched-chain groups, and X is a cation like Na, Ca, NH4, or organic amine. A neutral solution 1:3000 of the Na salt of 3,9-diethyl-6-tridecanol strongly inhibits the metabolism of the Gram pos. Staphylococcus aureus, Staphylococcus albus, Sarcina lutes, Micrococcus tetragenus, and Lactobacillus; and the Gram neg. Proteus vulgaris. At a pH of about 5-4.5 the bactericidal action of 0.1-2.0% solns. of these compds. is enhanced. Formulas are given for an antiseptic and germicidal ointment, a brushless shaving cream, a toothpaste, and a liquid dentifrice, all containing the Na salt of sulfated 3,9-diethyl-6tridecanol; and a mouth wash, and an after-shaving lotion containing the Na salt of sulfated 2-methyl-7-ethyl-4-hendecanol.

IT 3282-85-7P, 6-Tridecanol, 3,9-diethyl-, acid sulfate sodium salt

RL: PREP (Preparation) (preparation of)

RN 3282-85-7 HCAPLUS

CN 6-Tridecanol, 3,9-diethyl-, hydrogen sulfate, sodium salt (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

Na

IT 139-88-8, 4-Hendecanol, 7-ethyl-2-methyl-, sulfate, sodium salt (uses of)

RN 139-88-8 HCAPLUS

CN 4-Undecanol, 7-ethyl-2-methyl-, hydrogen sulfate, sodium salt (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

Na

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1937:48772 HCAPLUS
ΑN
DN
    31:48772
OREF 31:6772i,6773a-c
    7-Ethyl-2-methyl-4-undecanol and intermediate compounds and derivatives
     (solvents and detergents)
ΙN
    Wickert, Jacob N.; Freure, Benjamin T.
PΑ
    Union Carbide and Carbon Corp.
DT
    Patent
LA
    Unavailable
FAN.CNT 1
    PATENT NO.
                        KIND
                               DATE
                                          APPLICATION NO.
                                                                 DATE
    _____
                                          ______
                        ____
                               _____
                                                                 _____
                               19370727
                                         US 1936-92504
    US 2088021
PΤ
                                                                 19360725 <--
    Me iso-Bu ketone will react with either ethylcaproaldehyde or
AΒ
    ethylpropylacrolein to form a ketol which, upon dehydration, produces an
    unsatd. ketone. The latter, upon hydrogenation, yields a 14-C ketone and
    a 14-C secondary alc. The reactions involved are: MeCOCH2CHMe2 +
    BuCHEtCHO → Me2CHCH2COCH2CH(OH)CHEtBu → (dehydration)
    → Me2CHCH2COCH: CHCHEtBu (partial hydrogenation) →
    Me2CHCH2COCH2CH2CHEtBu(hydrogenation) → Me2CHCH2CH(OH)CH2CH2CHEtBu.
    This alc., upon subsequent sulfation, as with concentrated H2SO4, produces the
    monosulfate of the tetradecyl alc., which is then converted into the salt
    of the alkylsulfuric ester by treatment with a base, such as a NaOH solution
    The sodium sulfate of this tetradecyl alc. is a clear, snow-white solid or
    wax. It is completely soluble in water and in methanol; and its solns. are
    effective detergents. Its water solution when shaken produces a
    voluminous stable foam. The 7-ethyl-2-methyl-4-undecanone b4
    101-3° and b760 252-3° and there is conjointly obtained a
    product, presumably 7-ethyl-2-methyl-4-undecanol, b4 112-14° and
    b760 261-2°. Various details of procedure are described.
ΙT
    139-88-8P, 4-Hendecanol, 7-ethyl-2-methyl-, sulfate, sodium salt
    RL: PREP (Preparation)
        (preparation of)
    139-88-8 HCAPLUS
RN
CN
    4-Undecanol, 7-ethyl-2-methyl-, hydrogen sulfate, sodium salt (6CI, 7CI,
    8CI, 9CI) (CA INDEX NAME)
     OSORH
                Εt
i-Bu-CH-CH2-CH2-CH-Bu-n
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Na

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L133 ANSWER 55 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN
     1937:48771 HCAPLUS
DN
     31:48771
OREF 31:6772f-i
     Detergent and emulsifying compositions comprising salts of
     sulfate esters of saturated secondary branched-chain monohydric aliphatic
     alcohols
ΙN
     Wickert, Jacob N.
PΑ
     Union Carbide and Carbon Corp.
DТ
     Patent
LA
     Unavailable
FAN.CNT 1
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PATENT NO.
                         KIND
                               DATE
                                             APPLICATION NO.
                                                                     DATE
                                -----
     -----
                                             _____
     US 2088020
PΙ
                                 19370727
                                            US
AΒ
     As cleansing and emulsifying agents suitable for use alone or with other
     detergents such as soap or Na2CO3, there are used derivs. of
     3-methyl-2-heptanol, 3-ethyl-6-heptanol, 2-methyl-4-nonanol,
     5-ethyl-2-nonanol, 3-ethyl-8-methyl-6-nonanol, 3-ethyl-6-undecanol,
     7-ethyl-2-methyl-4-undecanol, 3,9-diethyl-6-undecanol,
     5-ethyl-8-tridecanol, 9-ethyl-5-methyl-6-tridecanol, 3,9-diethyl-6-
     tridecanol, 5,11-diethyl-8-pentadecanol, 7-ethyl-2-methyl-4-undecanol,
     3,9-diethyl-6-tridecanol, 5,11-diethyl-8-pentadecanol,
     7-ethyl-2-methyl-4-undecanol, 3,9-diethyl-6-tridecanol, or
     5,11-diethyl-8-pentadecanol, such as Na octyl sulfate, Na nonyl sulfate,
     Na decyl sulfate, Na undecyl sulfate, Na dodecyl sulfate, Na tridecyl
     sulfate, Na tetradecyl sulfate, Na pentadecyl sulfate, Na pentadecyl
     sulfate, Na hexadecyl sulfate, Na heptadecyl sulfate, Na nondecyl sulfate, *M. E. A. tetradecyl sulfate, *M. E. A. heptadecyl sulfate, *M. E. A.
     nondecyl sulfate, **T. E. A. tetradecyl sulfate, **T. E. A. heptadecyl
     sulfate or **T. E. A. nondecyl sulfate. (*M. E. A. designates
     monoethanolamine. **T. E. A. designates triethanolamine.) The sulfate
     derivs. of alcs. having at least 14 C atoms in their mol. are especially
     effective as detergents in either a neutral or an alkaline medium,
     for treating silk or cotton, etc.
ΙΤ
     139-88-8P, 4-Hendecanol, 7-ethyl-2-methyl-, sulfate, sodium salt
     RL: PREP (Preparation)
        (preparation of)
RN
     139-88-8 HCAPLUS
CN
     4-Undecanol, 7-ethyl-2-methyl-, hydrogen sulfate, sodium salt (6CI, 7CI,
     8CI, 9CI) (CA INDEX NAME)
```

```
\begin{array}{ccc} \text{OSO}_3\text{H} & \text{Et} \\ & | & | \\ \text{i-Bu-CH-CH}_2\text{--CH}_2\text{---CH-Bu-n} \end{array}
```

● Na

=> d his

(FILE 'HOME' ENTERED AT 08:43:10 ON 11 JAN 2007) SET COST OFF

```
FILE 'HCAPLUS' ENTERED AT 08:43:27 ON 11 JAN 2007
L1
              1 S (US6150322 OR US5849960)/PN OR (US98-133303# OR US96-755843#)
                 E SINGLETON/AU
                 E SINGLETON D/AU
             68 S E3, E12, E20, E26, E27
L2
                 E KRAVETZ/AU
             46 S E18-E22
T.3
                E MURRAY/AU
              2 S E3
T.4.
                 E MURRAY B/AU
L5
             28 S E3
                 E MURRAY BREND/AU
L6
             78 S E6, E8, E9, E10
```

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E ALCOHOL/CW, CT
1.7
           1192 S E3, E4
                E ALCOHOLS/CW, CT
         149569 S E3, E4, E5
rac{1}{8}
L9
         150758 S L7, L8
           1020 S L9 (L) BRANCH?
L10
L11
             38 S L10 (L) (SULFAT? OR SULPHAT?)
L12
             2 S L1-L6 AND L11
L13
             13 S L11 AND (PY<=1996 OR PRY<=1996 OR AY<=1996)
             1 S L12 AND L13
L14
            13 S L13, L14
L15
L16
            210 S L1-L6 NOT L12
            42 S L16 AND L9
L17
            17 S L17 AND L10
L18
L19
            9 S L18 AND (?SULFAT? OR ?SULPHAT?)
L20
             8 S L19 NOT 60/SC
L21
             8 S L18 NOT L19
             2 S L18 AND (?SULFONAT? OR ?SULPHONAT?)
L22
L23
             1 S L22 NOT 60/SC
L24
           167 S L10 AND (?SULFAT? OR ?SULPHAT?)
L25
           114 S L10 AND (?SULFONAT? OR ?SULPHONAT?)
L26
         62 S L24, L25 AND (PY<=1996 OR PRY<=1996 OR AY<=1996)
L27
            71 S L14, L20, L23, L26
     FILE 'REGISTRY' ENTERED AT 08:56:41 ON 11 JAN 2007
     FILE 'HCAPLUS' ENTERED AT 08:56:41 ON 11 JAN 2007
L28
                TRA L27 1- RN : 615 TERMS
     FILE 'REGISTRY' ENTERED AT 08:56:43 ON 11 JAN 2007
L29
            615 SEA L28
L30
            86 S L29 AND UNSPECIFIED
L31
            51 S L30 AND ENTE/FA
L32
            529 S L29 NOT L30
L33
            114 S L32 AND S/ELS
L34
            111 S L33 AND O/ELS
            59 S L34 AND PMS/CI
L35
L36
            56 S L35 NOT (N/ELS OR "(C2H4O)NC12H22O7S.NA"/MF)
L37
            3 S L35 NOT L36
L38
             1 S 181355-78-2
L39
             57 S L36, L38
L40
            52 S L34 NOT L35
L41
            19 S L40 AND NR>=1
L42
             33 S L40 NOT L41
L43
            19 S L42 AND C>=8
L44
             12 S L43 AND (C16H34O4S OR C18H38O4S OR C12H26O4S OR C17H36O4S OR
                SEL RN 9-12
L45
             8 S L44 NOT E1-E4
L46
              STR
L47
             8 S L46 CSS SAM
L48
               STR L46
L49
              2 S L48 CSS
L50
            458 S L48 CSS FUL
                SAV L50 OGDEN655/A
L51
          19291 S C2H4O AND S/ELS
L52
          8375 S L51 NOT C6/ES
L53
           3525 S L52 NOT (N OR P OR SI)/ELS
L54
           2962 S L53 AND 1/S
L55
           1881 S L54 NOT PROPEN?
L56
           568 S L55 AND NR>=1
```

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L57
            399 S L56 AND OC2/ES
L58
            389 S 75-21-8/CRN AND L57
L59
             43 S L58 AND 1/NR
L60
           1313 S L55 NOT L56
L61
            690 S L60 AND (S AND C AND O AND H)/ELS AND 4/ELC.SUB
L62
            178 S L61 AND OXO
L63
            512 S L61 NOT L62
L64
                STR
L65
              2 S L64 CSS SAM SUB=L63
L66
             92 S L64 CSS FUL SUB=L63
                SAV L66 OGDEN655A/A
L67
             45 S L66 NOT L39, L45
             43 S L67 NOT C4H10O2S
L68
L69
             11 S L68 AND ("(C2H4O)NC18H38O5S" OR "(C2H4O)NC2OH42O6S" OR "(C2H4
L70
             3 S L68 AND ("(C2H4O)NC19H40O6S" OR "(C2H4O)NC18H38O6S" OR "(C2H4
L71
             29 S L68 NOT L69, L70
            546 S L39, L45, L50, L71
L72
                SAV L72 OGDEN655B/A
            460 S L72 NOT C2H4O
L73
L74
             86 S L72 NOT L73
L75
              7 S L74 AND ("(C2H4O)NC12H26O4S.NA" OR "(C2H4O)NH2O4S" OR "(C2H4O
                SEL RN 1-3
L76
              3 S E5-E7
L77
             4 S L75 NOT L76
L78
             82 S L74 NOT L77
                SAV L78 OGDEN655C/A
                SAV L73 OGDEN655D/A
L79 ·
            213 S L73 AND NC>=2
L80
             2 S L79 AND PMS/CI
L81
            211 S L79 NOT L80
L82
             24 S L81 NOT SALT
L83
              5 S L82 AND (C6H15N OR C6H15NO3 OR C2OH43N OR C12H26O5S)
L84
            187 S L81 NOT L82
L85
             14 S L84 AND (NR>=1 OR IUM)
L86
              4 S L85 AND H3N
L87
            173 S L84 NOT L85
L88
            170 S L87 NOT (11C# OR 13C# OR 14C# OR C11# OR C13# OR C14# OR LABE
L89
            179 S L83, L86, L88
                SAV L89 OGDEN655E/A
L90
             32 S L81 NOT L89
L91
             1 S L90 AND C12H26O4S
L92
            180 S L89, L91
     FILE 'HCAPLUS' ENTERED AT 09:42:16 ON 11 JAN 2007
            785 S L92
L93
L94
            298 S L78
L95
            257 S L93 AND PY<=1996 NOT P/DT
L96
          · 256 S L93 AND (PD<=19961126 OR PRD<=19961126 OR AD<=19961126) AND P
L97
            513 S L95, L96
            50 S L94 AND PY<=1996 NOT P/DT
1,98
L99
            109 S L94 AND (PD<=19961126 OR PRD<=19961126 OR AD<=19961126) AND P
            159 S L98, L99
L100
L101
            145 S L97 AND DETERGENT?/SC, SX, CW, CT, BI
L102
             80 S L100 AND DETERGENT?/SC, SX, CW, CT, BI
                E DETERGENT/CT
L103
           2865 S E61-E68
L104
           1141 S E2+OLD, NT
L105
            912 S E4+OLD, NT
L106
          47324 S E12-E60
                E E12+ALL
```

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23497 S E73+OLD, NT OR E76+OLD, NT
L107
            59 S L97 AND L103-L107
L108
L109
             46 S L100 AND L103-L107
            147 S L101, L108
L110
             81 S L102, L109
L111
L112
              0 S L1-L6 AND L110, L111
                SEL RN L1
     FILE 'REGISTRY' ENTERED AT 09:47:10 ON 11 JAN 2007
L113 .
        7 S E1-E7
     FILE 'HCAPLUS' ENTERED AT 0.9:47:30 ON 11 JAN 2007
L114
              1 S L113 AND L1
L115
              1 S L114 AND L7-L27
                E SHAMPOO/CT
L116
           9455 S E8+OLD, NT OR E8-E11
                E SCORING/CT
                E SCOURING/CT
           1182 S E5+OLD, NT OR E5, E6, E7, E8, E9
L117
             3 S L97 AND L116,L117
L118
            16 S L100 AND L116, L117
L119
L120
            148 S L110, L118
            92 S L111,L119
L121
            74 S L120 AND P/DT
L122
            44 S L122 AND US/PC, PRC, AC
L123
L124
            18 S L123 NOT DETERGENT?/SC
L125
             8 S L124 AND (TEXTILE? OR COSMETIC?)/SC
L126
             44 S L123, L125
             58 S L121 AND P/DT
L127
L128
            15 S L127 AND US/PC, PRC, AC
L129
             5 S L128 NOT DETERGENT?/SC
L130
             4 S L129 AND (TEXTILE? OR COSMETIC?)/SC
L131
             1 S L129 NOT L130
L132
             14 S L128 NOT L131
L133
             55 S L126, L132
     FILE 'REGISTRY' ENTERED AT 09:57:57 ON 11 JAN 2007
     FILE 'HCAPLUS' ENTERED AT 09:58:17 ON 11 JAN 2007
L134
           11 S L12, L20, L23 AND L1-L7
L135
             10 S L134 NOT L1
L136
            0 S L135 AND (PY<=1996 OR PRY<=1996 OR AY<=1996)
```

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